XR-2750/2753

SERVICE MANUAL

AEP Model
UK Model
XR-2750
East European Model
XR-2753

Photo: XR-2753

Model Name Using Similar Mechanism	XR-3750/C553SP
Tape Transport Mechanism Type	MG-52A-135

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-chanel stereo
Wow and flutter	0.08% (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	58 dB

Tuner section

FM *

Tuning range	XR-2750: 87.5 – 108.0 MHz XR-2753: 65.0 – 74.0 MHz (at 30 kHz step) 87.5 – 108.0 MHz (at 50 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	 0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

* There are the numerical values measured at 87.5 – 108.0 MHz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW : 153 – 281 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 50 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W × 4 (at 4 ohms)

General

Outputs	Power antenna control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 183 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 164 mm (w/h/d)
Mass	Approx. 1.6 kg
Supplied accessories	Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

FM/MW/LW CASSETTE CAR STEREO

MICROFILM

SONY®

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SERVICING NOTES

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Discard used batteries according to the manufacturer's instructions.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

ADVARSEL

Eksplosjonsfare ved feilaktig skifte av batteri.
Benytt samme batteritype eller en tilsvarende type
anbefalt av apparatfabrikanten.
Brukte batterier kasseres i henhold til fabrikantens
instruksjoner.

VARNING

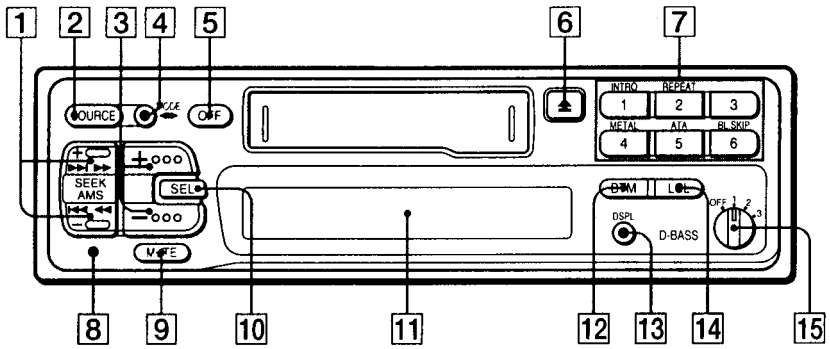
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en likvärdig typ som
rekommenderas av apparattillverkaren.
Kassera använt batteri enligt gällande föreskrifter.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

This section is extracted from instruction manual.

Location of controls



Refer to the pages for further details.

1 **SEEK/AMS button 3, 4, 5, 6**

2 **SOURCE button (TAPE/TUNER) 3, 5**

3 **⊕⊖ (volume/bass/treble/balance/ fader control) button 6**

4 **MODE (◀I▶) button**
During tuner reception:
BAND select 5

During tape playback:
Transport direction change 3

5 **OFF button 3**

6 **⏏ (eject) button 3**

7 **During radio reception:**
Preset number buttons 5

During tape playback:
① **INTRO button 4**
② **REPEAT button 4**
④ **METAL button 4**
⑤ **ATA (Automatic Tuner Activation) button 4**
⑥ **BL.SKIP (Blank Skip) button 4**

8 **Reset button 3**
Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function properly.

9 **MUTE button 6**

10 **SEL (control mode select) button 6, 7**

11 **Display window**

12 **BTM (Best tuning memory) button 5**

13 **DSPL (display mode change) button 4**

14 **LCL button 6**

15 **D-BASS control 7**

Installation

Precautions

- Choose the installation location carefully so that the unit will not hamper the driver during driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

Installation

Précautions

- Choisir soigneusement l'emplacement de l'installation, pour que l'appareil ne gêne pas la conduite.
- Éviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ou à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 20°.

Instalación

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa, al aire de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, utilice solamente la ferretería de montaje suministrada.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 20°.

Montaj

Önlemler

- Cihazın yerini şöförün arabayı kullanmasını engellemiyecek bir şekilde, dikkatlice seçiniz.
- Cihazınızı direk güneş ışınına veya havalandırmadan gelen sıcak havaya mağruz, ya da tozlu, kirli veya fazla titreşime neden olacak yerlere montaj etmeyiniz.
- Sağlam ve emniyetli bir montaj için sadece cihazla birlikte sunulan donanımı kullanınız.

Takma açısının ayarı

Takma açısını 20'den aza ayarlayınız.

التركيب

تنبيهات إحتياطية

- إختر موقع تركيب الوحدة بعناية بحيث لا تعيق السائق اثناء قيادة السيارة.
- تجنب تركيب الوحدة في الاماكن التي تجعلها معرضة لدرجات حرارة مرتفعة، كان تتعرض لضوء الشمس المباشر أو الهواء الساخن من التدفئة أو حيث تتعرض للغبار أو الاوساخ أو الإهتزازات الزائدة.
- إستعمل فقط ادوات التثبيت المرفقة لتحصل على تركيب سليم وامن.

ضبط زاوية التثبيت

إضبط زاوية التثبيت بحيث تكون أقل من ٢٠ درجة.

Mounting Example

Installation in the dashboard

Przykład montażu

Instalacja na tablicy rozdzielczej

Пример за монтиране

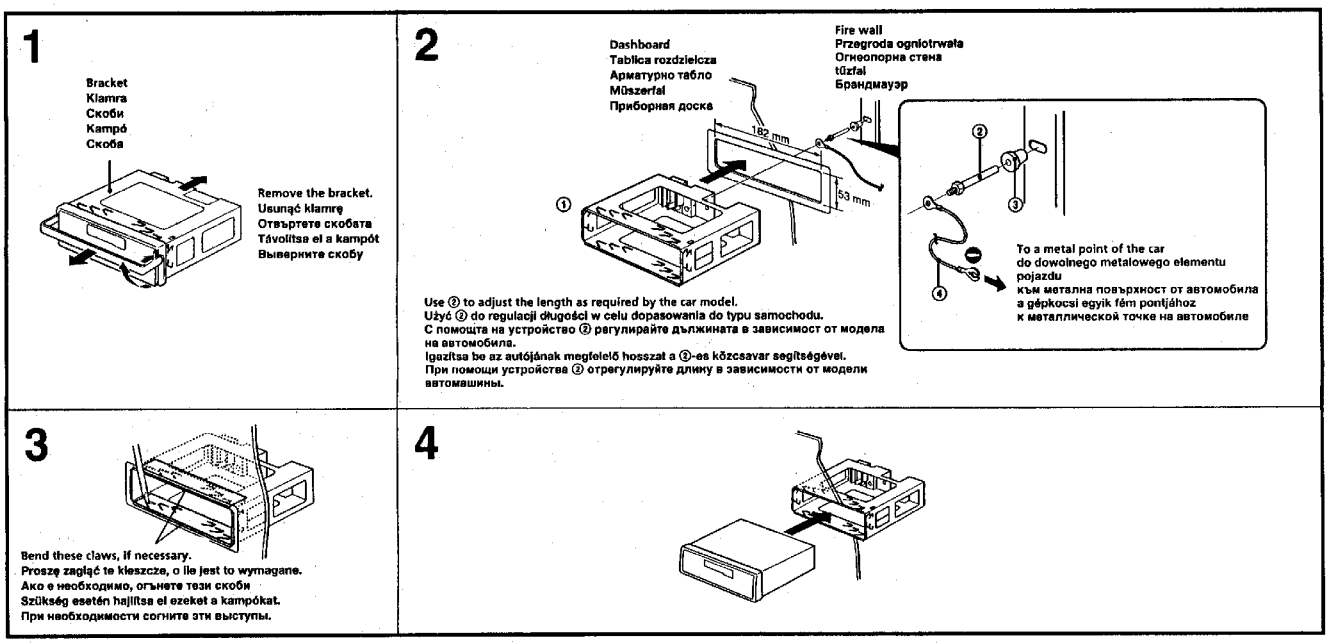
Инсталиране в арматурното табло

Szerelési példa

A készülék beszerelése a műszerfalba

Пример монтажа

Установка в приборной доске



Note for Connecting

If there is alternator noise (a whining sound when raising engine speed), earth the bracket ① by connecting it to a metal point of the car with the supplied chassis earth cord ④. Connect the earth cord to the bracket with part ② as shown in the step 2.

Uwagi dotyczące podłączenia

Przy wystąpieniu szmerów pochodzących z prądnicy (wysokie tony przy zwiększonych obrotach silnika), należy uziemić wspornik oznaczony ① przez podłączenie do metalowej części pojazdu przy pomocy dostarczonego kabla uziemiającego karoserię ④. Kabel uziemiający proszę podłączyć do wspornika częścią oznaczoną na rysunku cyfrą ②, jak zilustrowano w etapie 2.

Забележка по свързването

В случай, че се появи шум от алтернатора (свистене при повишаване на оборотите), заземете конзолата ① като я свържете към метална повърхност от автомобила с помощта на доставения заземяващ кабел ④. Свържете заземяващия кабел към конзолата с помощта на детайл ② по начина, показан в стъпка 2.

Tudnivaló a csatlakoztatásról

Ha generátor zajt hall (a motor fordulatszámának növelése közben fellépő sivító hang), földelje le az ① tartókeretet - csatlakoztassa a mellékelt ④ alváz földelővezetéket a gépkocsi egyik fém pontjához. A földelővezetéket a 2. lépésben leírtak szerint a ② elem segítségével rögzítse a tartókeretbez.

Примечание по подключению

Если генератор издает шум (воющий звук при наборе скорости), заземлите скобу ①, соединив ее металлической точкой на автомобиле с помощью входящего в комплект заземляющего провода ④. Соедините заземляющий провод со скобой с помощью части ② как показано в шаге 2.

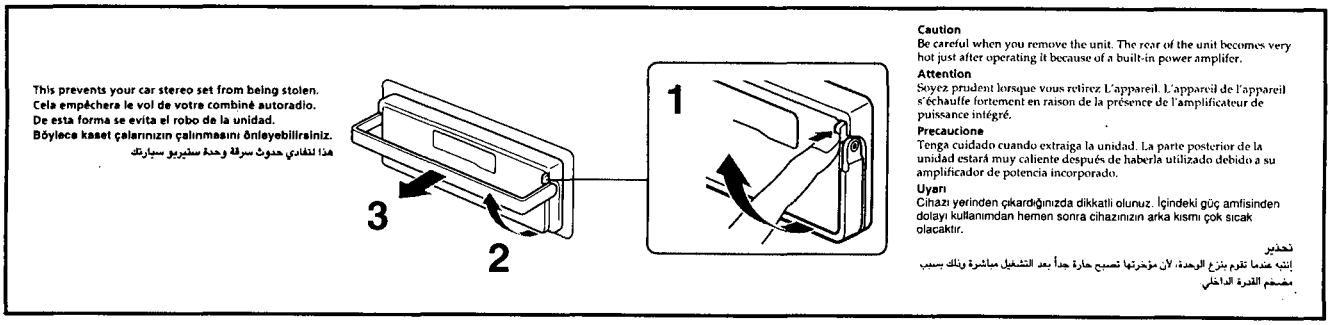
Removing the Unit

Retrait de l'appareil

Extracción de la unidad

Cihazın çıkartılması

نزع الوحدة


This prevents your car stereo set from being stolen.
Cela empêchera le vol de votre combiné autoradio.
De esta forma se evita el robo de la unidad.
Böylece kaset çalarınızın çalınmasını önleyebilirsiniz.
هذا لتفادي حدوث سرقة وحدة ستيريو سيارتك
3
2
1
Caution
Be careful when you remove the unit. The rear of the unit becomes very hot just after operating it because of a built-in power amplifer.
Attention
Soyez prudent lorsque vous retirez L'appareil. L'appareil de l'appareil s'échauffe fortement en raison de la présence de l'amplificateur de puissance intégré.
Precaucione
Tenga cuidado cuando extraiga la unidad. La parte posterior de la unidad estará muy caliente después de haberla utilizado debido a su amplificador de potencia incorporado.
Uyarı
Cihazı yerinden çıkardığınızda dikkatli olunuz. İçindeki güç amfisinden dolayı kullanımdan hemen sonra cihazınızın arka kısmı çok sıcak olacaktır.
تحذير
إنتبه عندما تقوم بنزع الوحدة، لأن مؤخرتها تصبح حارة جداً بعد التشغيل مباشرة وذلك بسبب مضخم القدرة الداخلي.

Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all earth wires to a common earth point.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating.
  If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual component's fuse rating.
  If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery.
  If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

Reset button

When the installation and connections are complete, be sure to press the reset button with a ballpoint pen etc.

Notes on the control leads

- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) Function.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Connexions

Précautions

- Cet appareil est conçu pour fonctionner sur un courant continu de 12 V avec masse négative.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Brancher les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veiller à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires.
- **Rassembler tous les fils de terre en un point de masse commun.**
- Branchez la broche 4 ou 7 du connecteur d'alimentation de l'appareil sur un circuit libre de la voiture d'une intensité nominale supérieure à l'intensité nominale du fusible. Si vous raccordez cet appareil en série avec d'autres appareils stéréo, le circuit de la voiture auquel ils sont raccordés doit présenter une intensité nominale supérieure à la somme de l'intensité nominale des fusibles des différents appareils. Si la voiture ne comporte aucun circuit d'une intensité nominale supérieure à l'intensité nominale du fusible, branchez directement l'appareil sur la batterie. Si la voiture ne comporte aucun circuit disponible pour le raccordement de cet appareil, raccordez l'appareil à un circuit de la voiture dont l'intensité nominale est supérieure à l'intensité nominale du fusible de telle sorte que si l'appareil grille son fusible, aucun autre circuit ne sera coupé.

Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo bille ou un objet pointu.

Remarque sur la fonction de commande

- *Le fil de contrôle de l'antenne électrique (bleu) fournit du courant continu de +12 V quand le tuner est mis sous tension ou quand la fonction ATA (Automatic Tuner Activation) est activée.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Connexion pour le maintien de la mémoire

Si les broches 4 ou 7 du connecteur d'alimentation de l'appareil sont raccordées, le circuit de mémoire sera toujours alimenté même si la clé de contact est en position "OFF".

Remarques sur la connexion des haut-parleurs

- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas connecter d'enceintes acoustiques actives (avec amplificateurs intégrés) aux bornes d'enceintes de cet appareil pour éviter de les endommager. Veiller à raccorder des enceintes passives.*

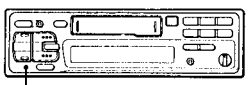
Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Antes de realizar las conexiones, desconecte el conductor de puesta a masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte los cables conectores de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- Cerciórese de conectar el cable conector de alimentación rojo a un terminal de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los conductores de puesta a masa a un punto común.**
- Conecte el terminal 4 o 7 del conector de alimentación de la unidad a un circuito libre del automóvil con una potencia nominal superior a la del fusible de la unidad. Si conecta ésta en serie con otros componentes estéreo, la potencia nominal del circuito del automóvil al que se conecte debe ser superior a la suma de la de los fusibles de los componentes individuales. Si no hay ningún circuito en el automóvil con una potencia nominal tan alta como la del fusible de la unidad, conecte ésta directamente a la batería. Si no hay circuitos en el automóvil disponibles para conectar esta unidad, conéctela a un circuito con una potencia nominal superior a la del fusible de la unidad de forma que si dicho fusible se funde no se vean afectados otros circuitos.

Botón de reposición

Cuando finalice la instalación y las conexiones, cerciórese de presionar el botón de reposición con un bolígrafo, etc.



Reset button
Touche de réinitialisation
Botón de reposición
Başlatma düğmesi
زر اعادة التهيئة

Nota sobre la función de control

- *El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador o cuando active la función de activación automática del sintonizador (ATA).*
- *Con esta unidad no podrá emplearse una antena motorizada desprovista de caja de relé.*

Conexión para protección de la memoria

Si se conecta el terminal 4 o 7 del conector de alimentación de la unidad, el circuito de memoria siempre recibirá alimentación aunque desactive la llave de encendido.

Notas sobre la conexión de los altavoces

- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*

Conexiones

Uyarı

- Bu cihaz sadece eksi topraklamalı 12 V DC ile çalışacak şekilde tasarlanmıştır.
- Kısa devreye sebep olmamak için bağlantıya başlamadan önce akünün toprak ucunu geçici olarak çıkartınız.
- **Sarı ve kırmızı** güç tellerinin bağlantısını diğer bütün telleri bağladıktan sonra yapınız.
- Kırmızı güç telini, kontak anahtarı çevrili durumundayken çalışacak olan 12 V güç ucuna bağladığınızdan emin olunuz.
- **Tüm toprak tellerini ortak bir toprak noktasında toplayınız.**
- Sarı teli cihazın sigorta değerinden daha yüksek boş bir devreye bağlayınız.
  Eğer cihazı diğer stereo cihazlarla seri olarak bağlayacaksanız, bunların bağlı olduğu araba devresi her iki cihazın sigorta değerlerinden yüksek olmalıdır.
  Eğer cihazın sigorta değeri kadar yüksek bir araba devresi yoksa cihazı direk olarak aküye bağlayınız.
  Eğer cihazı bağlayacak araba devresi mevcut değilse, cihazın sigortasından yüksek ve sigorta atması durumunda diğer devreleri kesmiyecek bir araba devresine bağlayınız.

Başlatma düğmesi

Montaj ve bağlantılar tamamlandığında, bir tükenmez kalem veya benzeri obje ile başlatma düğmesine basmayı unutmayınız.

Kontrol telleri hakkında notlar

- *Radyoyu açtığınızda veya ORÇ (Otomatik Radyo Çalımı) fonksiyonu işlemdeyken motorlu anten kontrol telinden (mavi) 12 V DC gelecektir.*
- *Röle kutusu olmayan motorlu antenler bu cihazla beraber kullanılamaz.*

Sürekli bağlanma

Sarı renkteki güç giriş teli kullanıldığında arabanın kontağı kapalı durumundayken bile cihazın elektronik devresine akım gelecektir.

Hoparlör bağlantısı hakkında notlar

- *Hoparlörleri takmaya başlamadan önce cihazı kapatınız.*
- *4 ile 8 ohm arasındaki dirence ve yeterli güce sahip hoparlörler kullanınız. Aksi taktirde hoparlörler zarar görebilir.*
- *Hoparlörlere giden kablolarını uçlarını arabanın dış kasasına ve sağ taraftaki hoparlörün tellerini sol taraftaki hoparlörün kablosuna değdirmeyiniz.*
- *Hoparlörleri paralel bağlamaya kalkmayınız.*
- *Hoparlör çıkışlarına aktif hoparlör (kendi amfisi olan) bağlamayınız. Bu hareket aktif hoparlörün bozulmasına neden olabilir. Bu nedenle hoparlör çıkışlarına her zaman pasif hoparlör bağlayınız.*

التوصيلات

تنبيهات

- هذة الوحدة مصممة للعمل على تيار مباشر بقيمة ١٢ فولت بتاريض سالب فقط.
- قبل عمل التوصيلات، إفصل طرف توصيل الأرضي عن بطارية السيارة وذلك لتفادي حدوث تماس كهربائي.
- لا تقم بتوصيل أسلاك دخل التيار **الصفراء والحمراء** إلا بعد الإنتهاء من توصيل جميع الأسلاك الأخرى.
- تأكد من توصيل سلك دخل التيار الاحمر بطرف التيار ١٢ فولت الموجب الذي يسري فيه التيار عندما يكون مفتاح تشغيل المحرك في الوضع الثانوي (وضع الكماليات).
- **قم بتعديد جميع اسلاك التاريض الى نقطة تاريض مشتركة.**
- قم بتوصيل السلك الاصفر بدائرة كهربائية غير مستعملة في السيارة بمعايرة تزيد عن معايرة فيوز الوحدة.
  اذا قمت بتوصيل الوحدة على التوالي مع اجهزة ستيريو اخرى، فيجب ان تكون الدائرة الكهربائية التي يتم توصيلها بها بمعايرة اعلى من مجموع معايرات فيوزات الاجهزة الموصلة.
  اذا لم توجد دائرة كهربائية في السيارة بمعايرة تساوي معايرة فيوز الوحدة، قم بتوصيل الوحدة بالبطارية مباشرة.
  اذا لم توجد دائرة كهربائية لتوصيل الوحدة، قم بتوصيل الوحدة بدائرة كهربائية في السيارة بمعايرة اعلى من معايرة فيوز الوحدة بطريقة تحول دون قطع اي دوائر اخرى في حالة احتراق فيوز الوحدة.

زر اعادة التهيئة

عند الانتهاء من التركيب والتوصيلات، تأكد من ضغط زر اعادة التهيئة باستعمال قلم جاف الخ

ملاحظات حول اسلاك التحكم

- *سلك التحكم في الهوائي الآلي (أزرق) يقوم بإمداد تيار مباشر ١٢ فولت موجب عندما تقوم بتشغيل الوالف او عندما تقوم بتشغيل وظيفة ATA (التشغيل التلقائي للموالف).*
- *لا يمكن استعمال هوائي آلي بدون صندوق ترحيل مع هذه الوحدة*

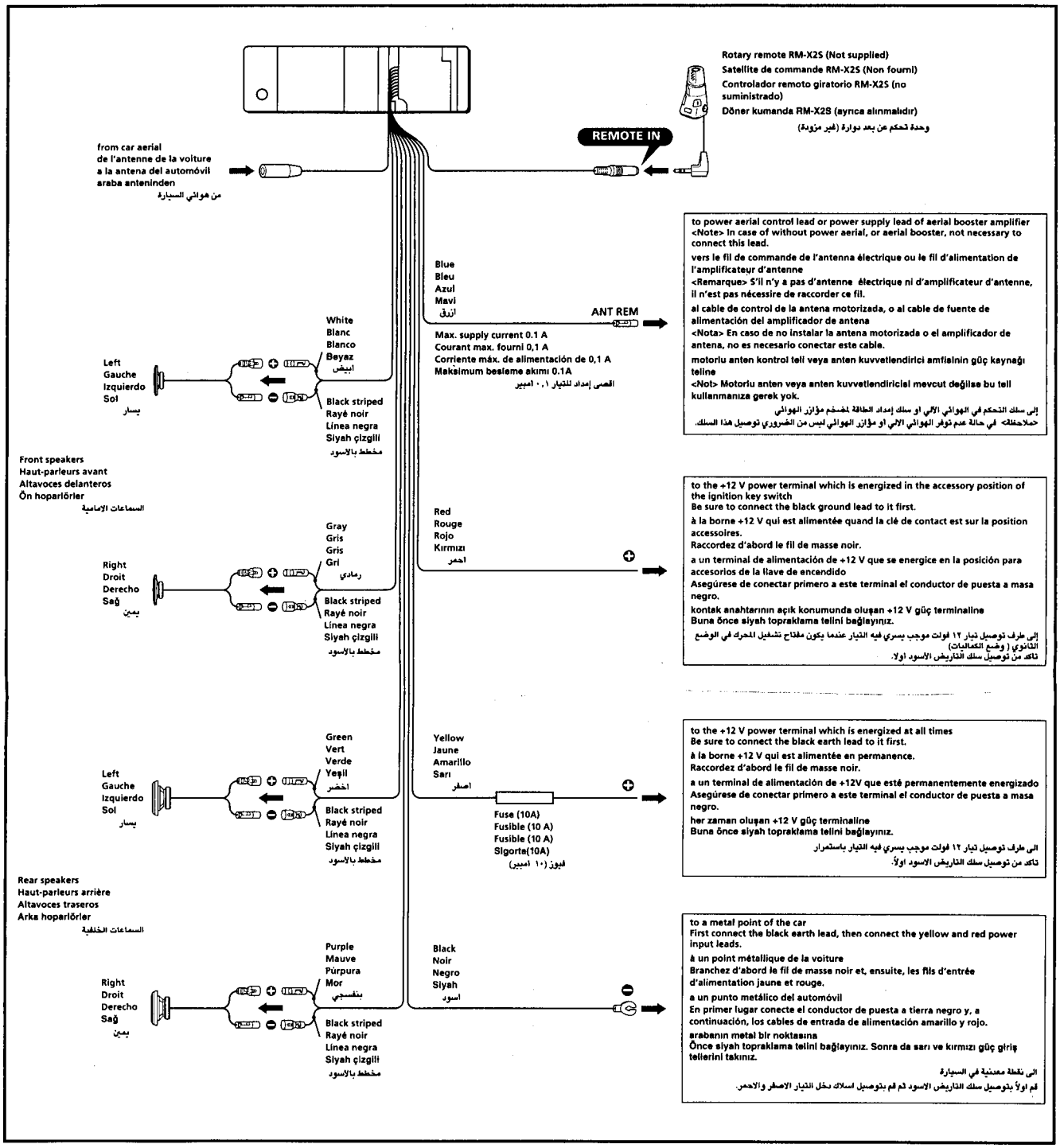
توصيلة حفظ الذاكرة

عند توصيل سلك دخل التيار الاصفر، يتم إمداد التيار بصورة مستمرة الى دائرة الذاكرة حتى أثناء إيقاف مفتاح تشغيل المحرك.

ملاحظات حول توصيل السماعات

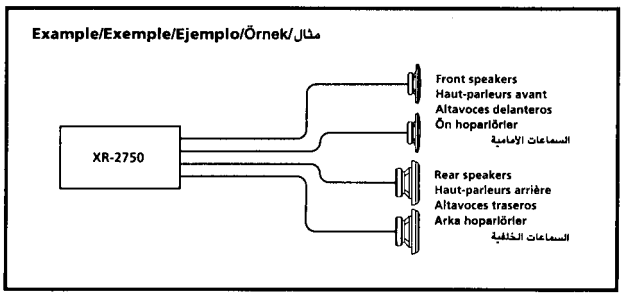
- *قبل توصيل السماعات، اوقف تشغيل الوحدة.*
- *إستعمل سماعات بمعاوقة من ٤ الى ٨ اوم وسعة تحمل قدرة مناسبة. اذا لم تفعل ذلك فقد تتلف السماعات*
- *لا تعمد الى توصيل أطراف توصيل نظام السماعات بشاسي السيارة ولا الى توصيل اطراف توصيل السماعات اليمنى باطراف توصيل السماعات اليسرى*
- *لا تحاول توصيل السماعات على التوازي.*
- *لا تعمد الى توصيل اي سماعات نشطة (مجهزة بمضخمات داخلية) باطراف توصيل السماعات في الوحدة. يمكن لمثل هذا العمل ان يتلف السماعات النشطة. لذا تأكد من توصيل سماعات غير نشطة بتلك الاطراف.*

Connection example **Connexions de l'exemple** **Ejemplo de conexiones** **Bağlantı Örneği** **مثال على التوصيل**


Rotary remote RM-X2S (Not supplied)
Satellite de commande RM-X2S (Non fourni)
Controlador remoto giratorio RM-X2S (no suministrado)
Döner kumanda RM-X2S (ayrıca alınmalıdır)
وحدة تحكم عن بعد دوارة (غير مزودة)
REMOTE IN
from car aerial
de l'antenne de la voiture
a la antena del automóvil
araba anteninden
من هوائي السيارة
Blue
Bleu
Azul
Mavi
ازرق
ANT REM
Max. supply current 0.1 A
Courant max. fourni 0,1 A
Corriente máx. de alimentación de 0,1 A
Maksimum besleme akımı 0.1A
اقصى إمداد للتيار ٠,١ امبير
to power aerial control lead or power supply lead of aerial booster amplifier
<Note> In case of without power aerial, or aerial booster, not necessary to connect this lead.
vers le fil de commande de l'antenna électrique ou le fil d'alimentation de l'amplificateur d'antenne
<Remarque> S'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, il n'est pas nécessire de raccorder ce fil.
al cable de control de la antena motorizada, o al cable de fuente de alimentación del amplificador de antena
<Nota> En caso de no instalar la antena motorizada o el amplificador de antena, no es necesario conectar este cable.
motorlu anten kontrol teli veya anten kuvvetlendirici amfisinin güç kaynağı teline
<Not> Motorlu anten veya anten kuvvetlendiricisi mevcut değilse bu teli kullanmanıza gerek yok.
إلى سلك التحكم في الهوائي الآلي او سلك إمداد الطاقة لمضخم مؤازر الهوائي
حملاحظة> في حالة عدم توفر الهوائي الالي او مؤازر الهوائي ليس من الضروري توصيل هذا السلك.
White
Blanc
Blanco
Beyaz
ابيض
Left
Gauche
Izquierdo
Sol
يسار
Black striped
Rayé noir
Línea negra
Siyah çizgili
مخطط بالاسود
Front speakers
Haut-parleurs avant
Altavoces delanteros
Ön hoparlörler
السماعات الامامية
Red
Rouge
Rojo
Kırmızı
احمر
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black ground lead to it first.
à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires.
Raccordez d'abord le fil de masse noir.
a un terminal de alimentación de +12 V que se energice en la posición para accesorios de la llave de encendido
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.
kontak anahtarının açık konumunda oluşan +12 V güç terminaline
Buna önce siyah topraklama telini bağlayınız.
إلى طرف توصيل تيار ١٢ فولت موجب يسري فيه التيار عندما يكون مفتاح تشغيل المحرك في الوضع الثانوي (وضع الكماليات)
تاكد من توصيل سلك التاريض الاسود اولا.
Gray
Gris
Gris
Gri
رمادي
Right
Droit
Derecho
Sağ
يمين
Black striped
Rayé noir
Línea negra
Siyah çizgili
مخطط بالاسود
Yellow
Jaune
Amarillo
Sarı
اصفر
Green
Vert
Verde
Yeşil
اخضر
Fuse (10A)
Fusible (10 A)
Fusible (10 A)
Sigorta(10A)
فيوز (١٠ امبير)
to the +12 V power terminal which is energized at all times
Be sure to connect the black earth lead to it first.
à la borne +12 V qui est alimentée en permanence.
Raccordez d'abord le fil de masse noir.
a un terminal de alimentación de +12V que esté permanentemente energizado
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.
her zaman oluşan +12 V güç terminaline
Buna önce siyah topraklama telini bağlayınız.
الى طرف توصيل تيار ١٢ فولت موجب يسري فيه التيار باستمرار
تاكد من توصيل سلك التاريض الاسود اولا.
Rear speakers
Haut-parleurs arrière
Altavoces traseros
Arka hoparlörler
السماعات الخلفية
Black
Noir
Negro
Siyah
اسود
to a metal point of the car
First connect the black earth lead, then connect the yellow and red power input leads.
à un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
a un punto metálico del automóvil
En primer lugar conecte el conductor de puesta a tierra negro y, a continuación, los cables de entrada de alimentación amarillo y rojo.
arabanın metal bir noktasına
Önce siyah topraklama telini bağlayınız. Sonra da sarı ve kırmızı güç giriş tellerini takınız.
الى نقطة معدنية في السيارة
قم اولاً بتوصيل سلك التاريض الاسود ثم قم بتوصيل اسلاك دخل التيار الاصفر والاحمر.
Purple
Mauve
Púrpura
Mor
بنفسجي
Right
Droit
Derecho
Sağ
يمين
Black striped
Rayé noir
Línea negra
Siyah çizgili
مخطط بالاسود

Connection diagram
Schémas de connexion
Diagrama de conexiones
Bağlantı şeması

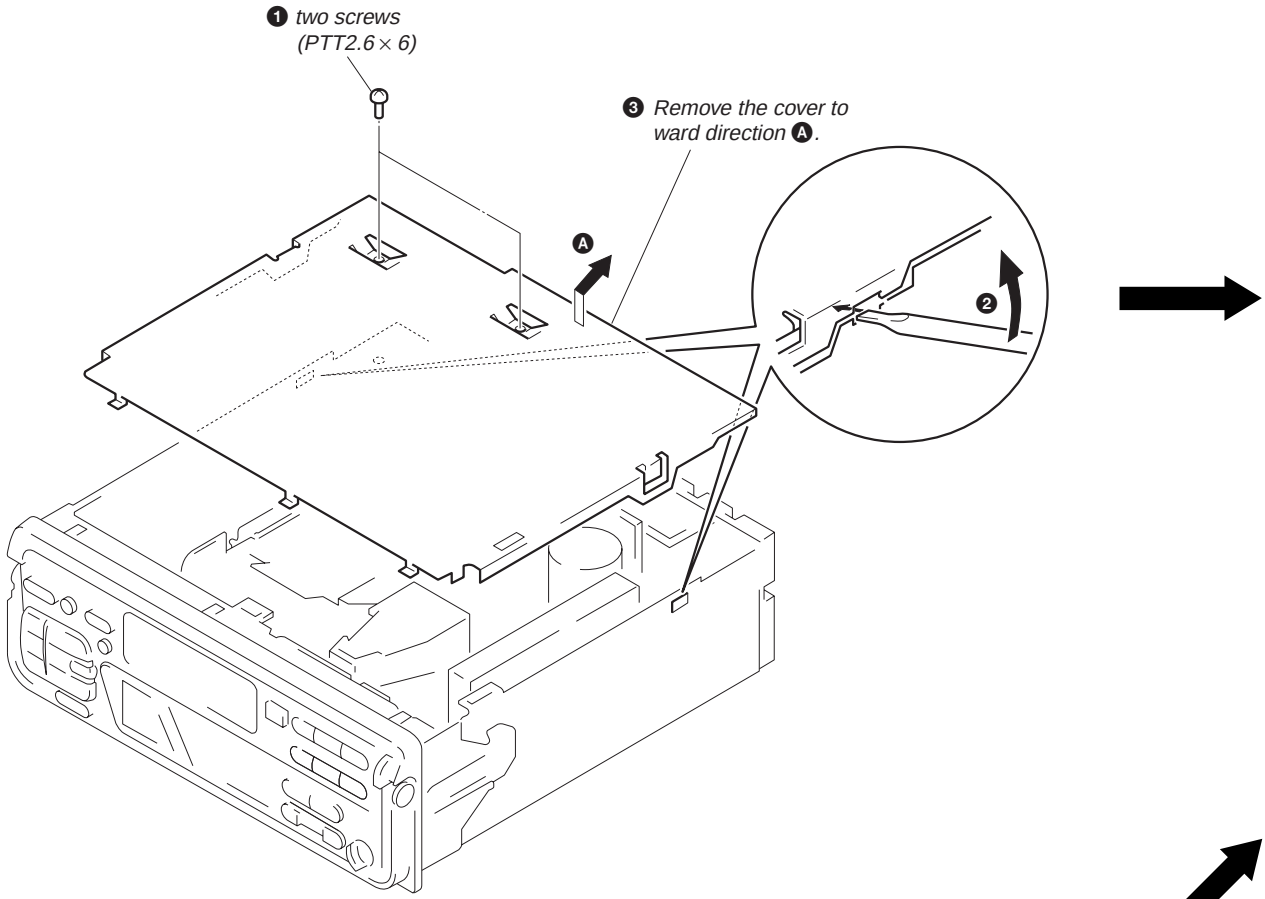
مخطط التوصيل



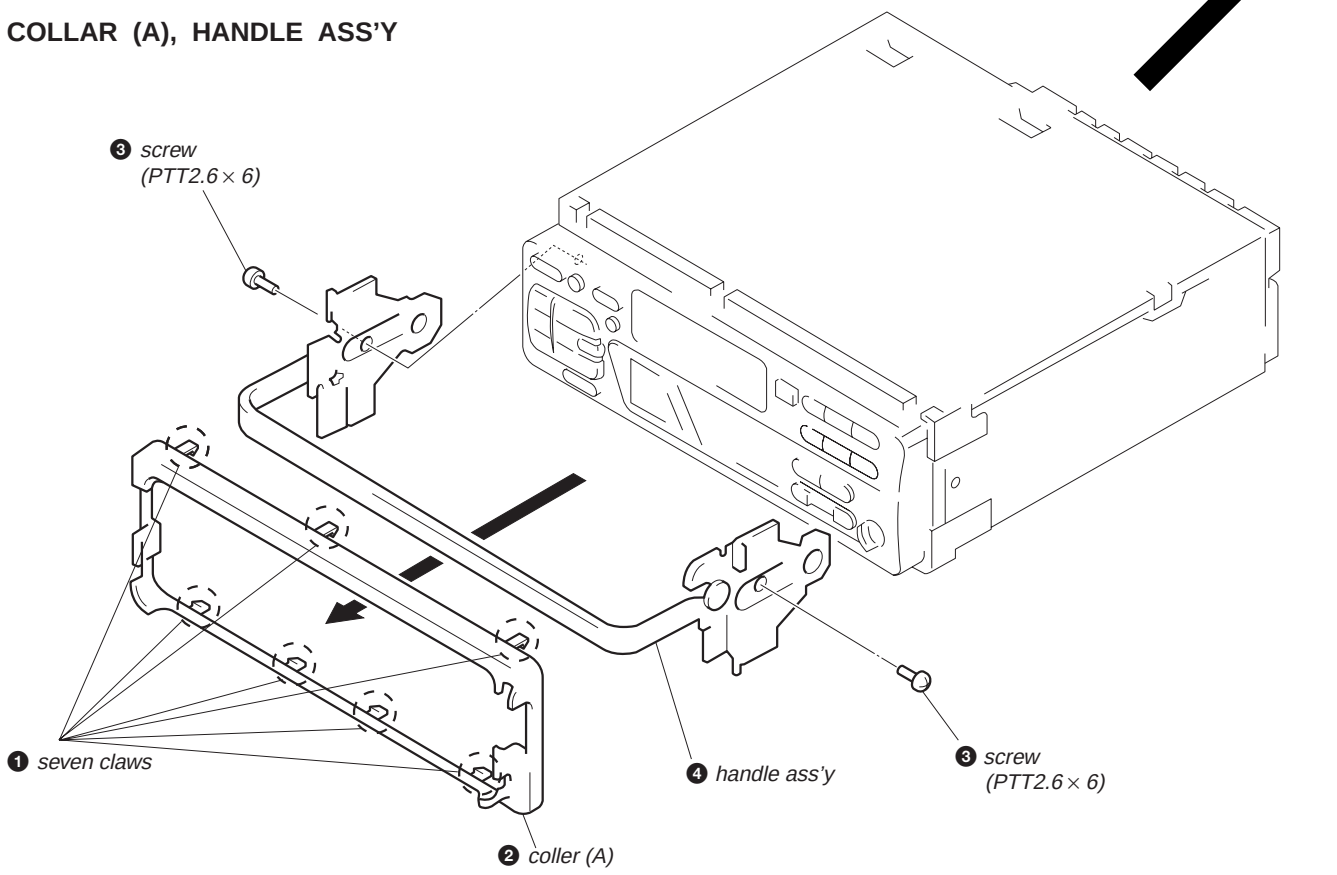
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

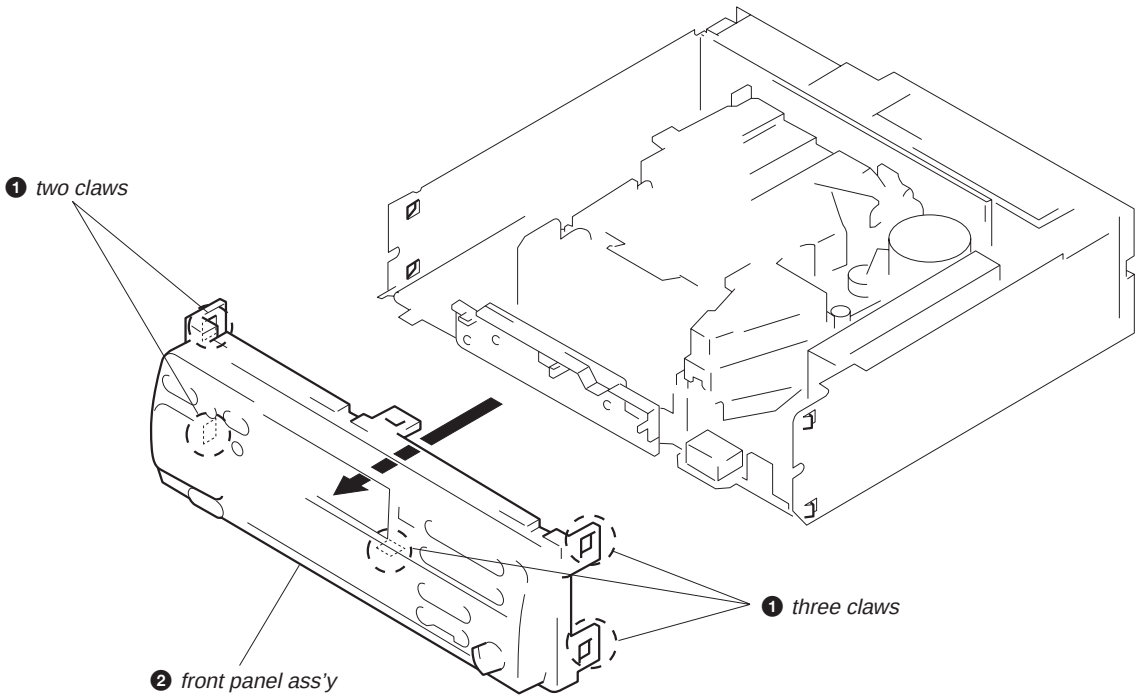
COVER



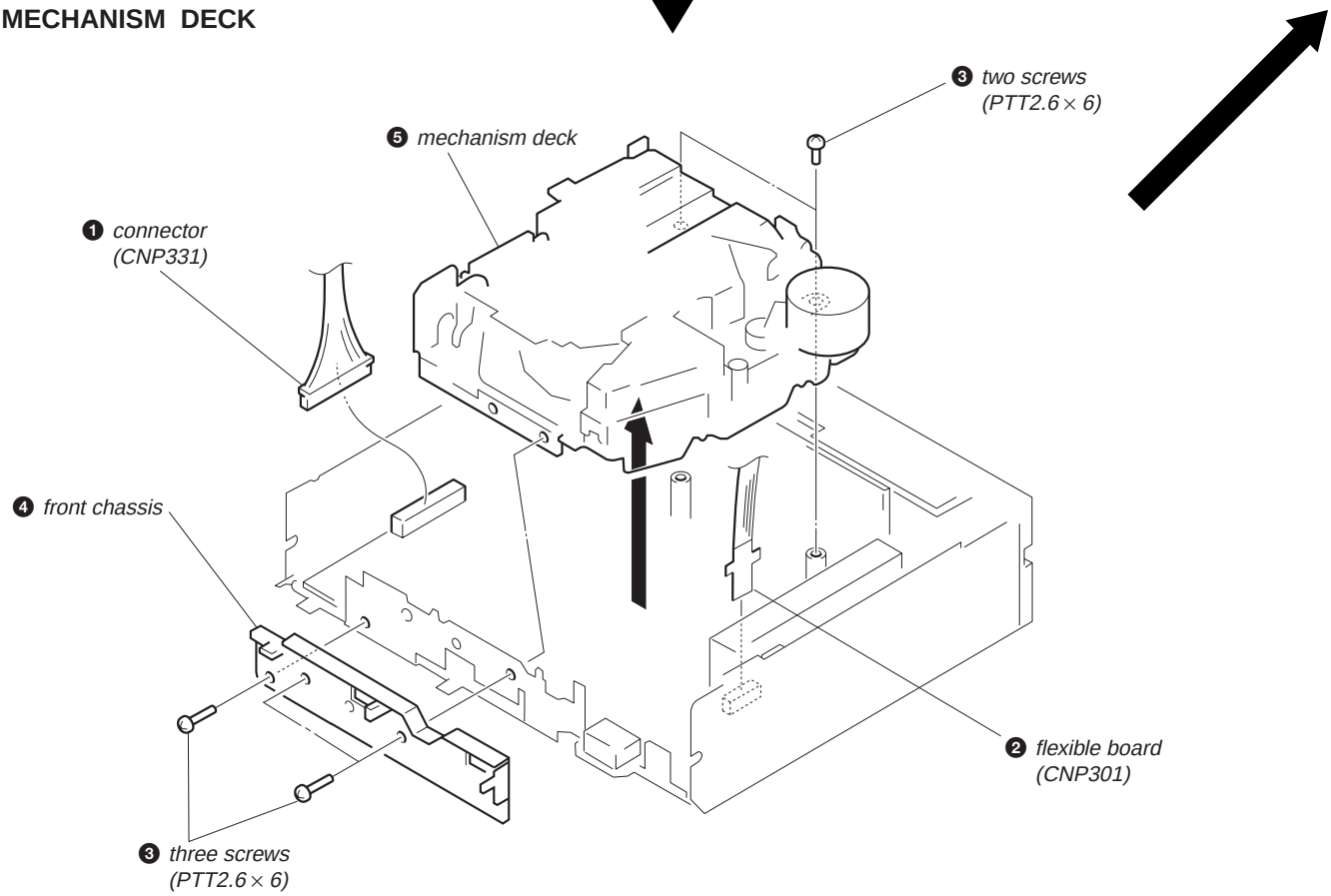
COLLAR (A), HANDLE ASS'Y



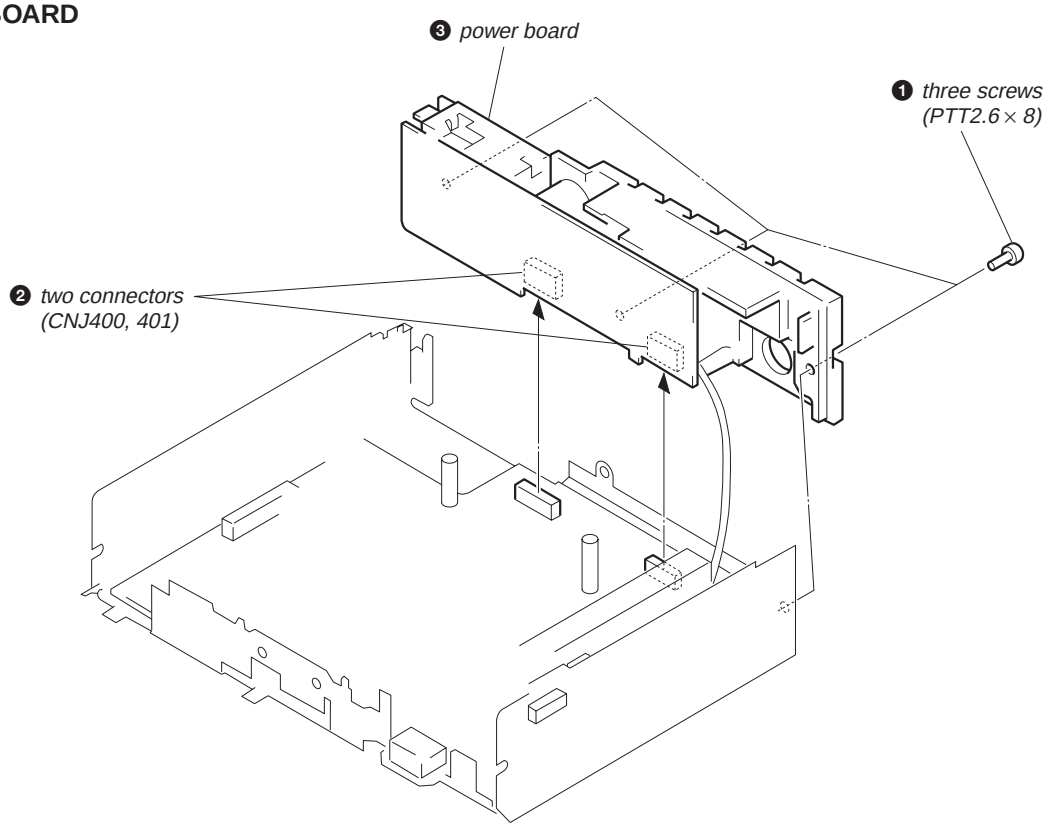
FRONT PANEL ASS'Y



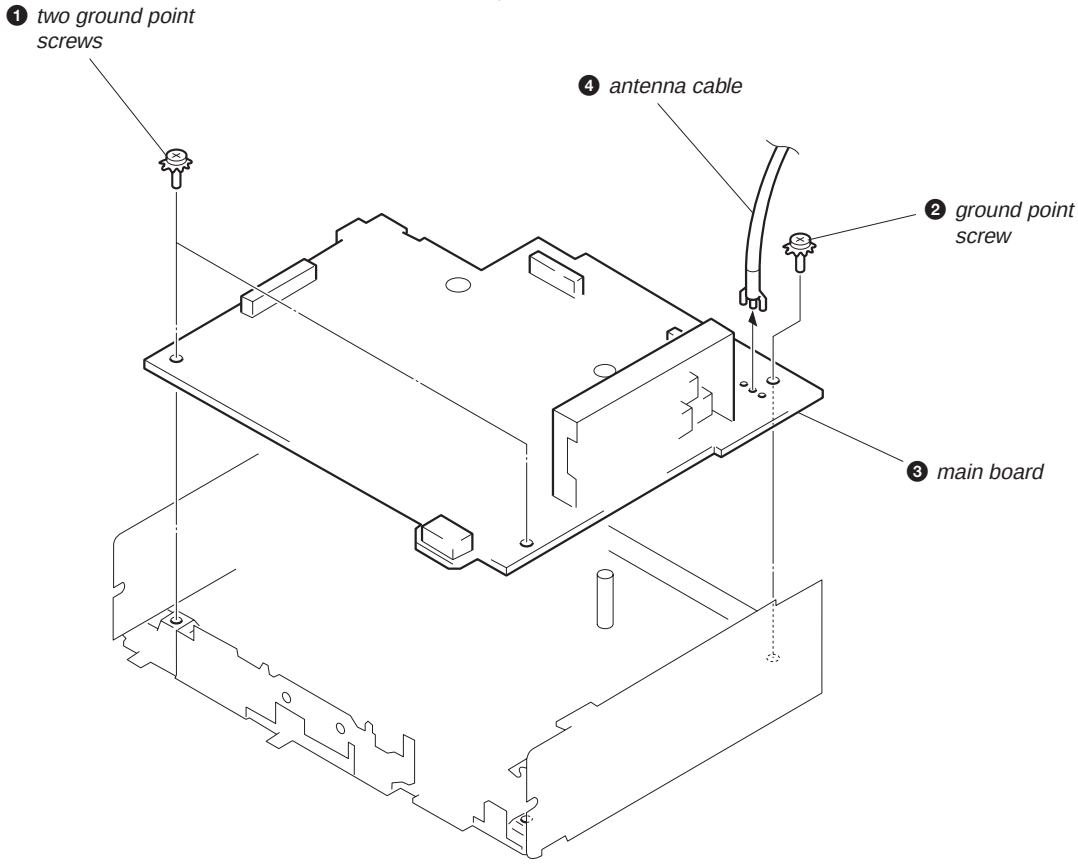
MECHANISM DECK



POWER BOARD



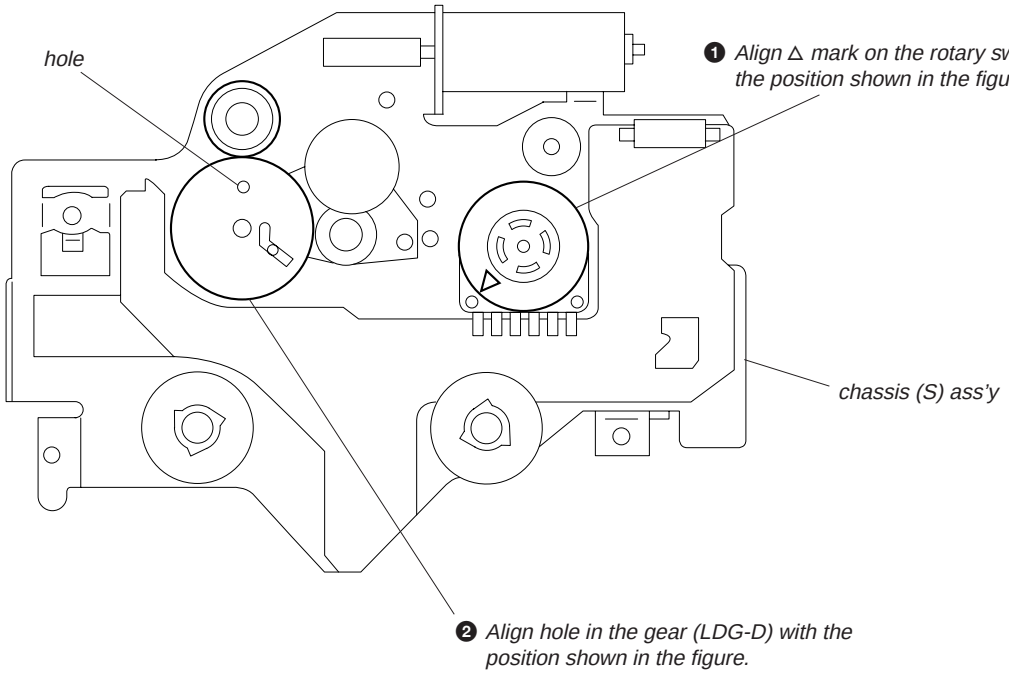
MAIN BOARD



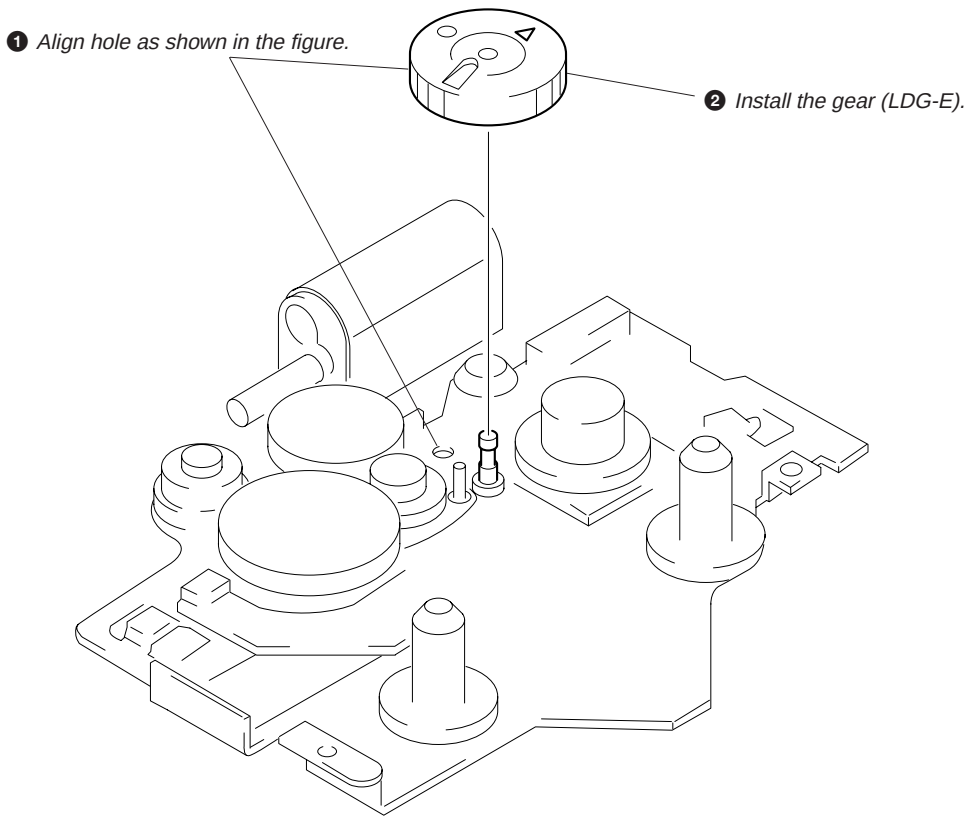
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note: Follow the assembly procedure in the numerical order given.

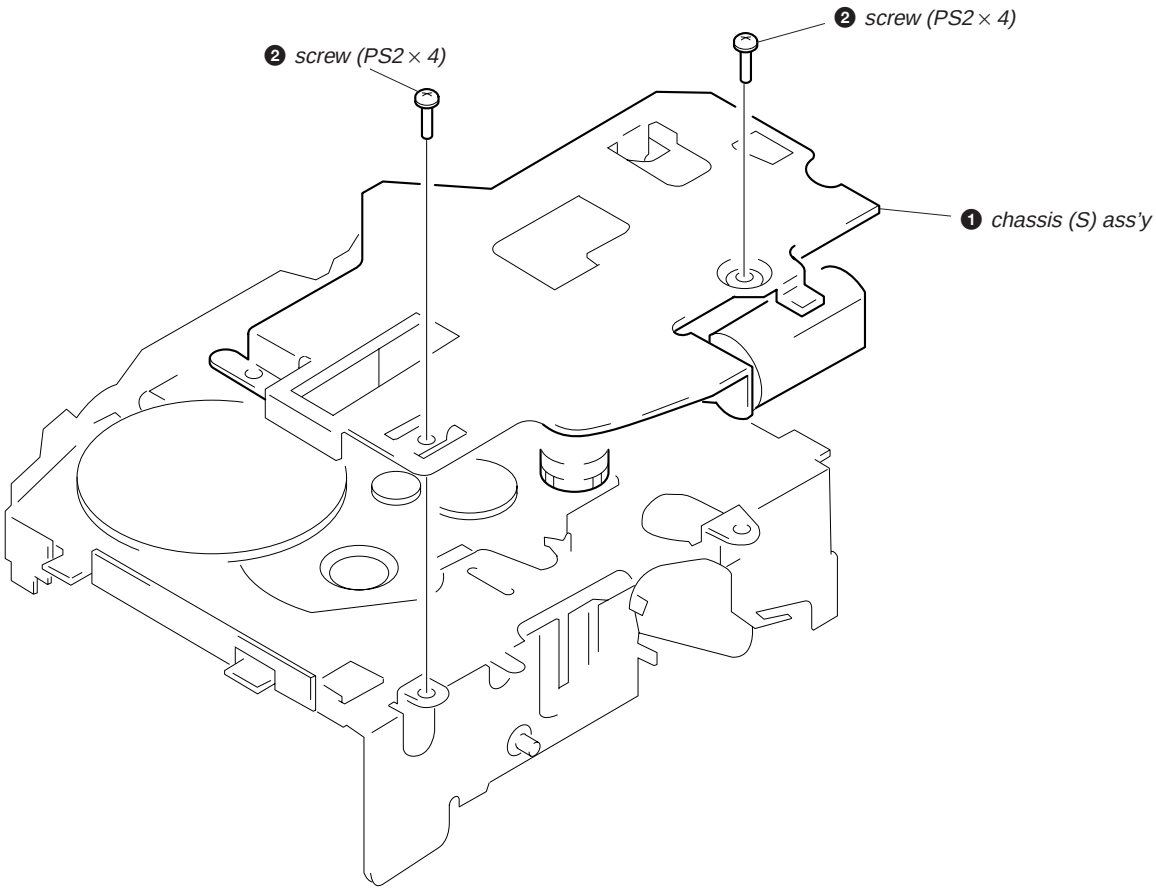
ALIGNMENT OF FRONT SWITCH


hole
❶ Align △ mark on the rotary switch the position shown in the figure.
chassis (S) ass'y
❷ Align hole in the gear (LDG-D) with the position shown in the figure.

GEAR (LDGE)

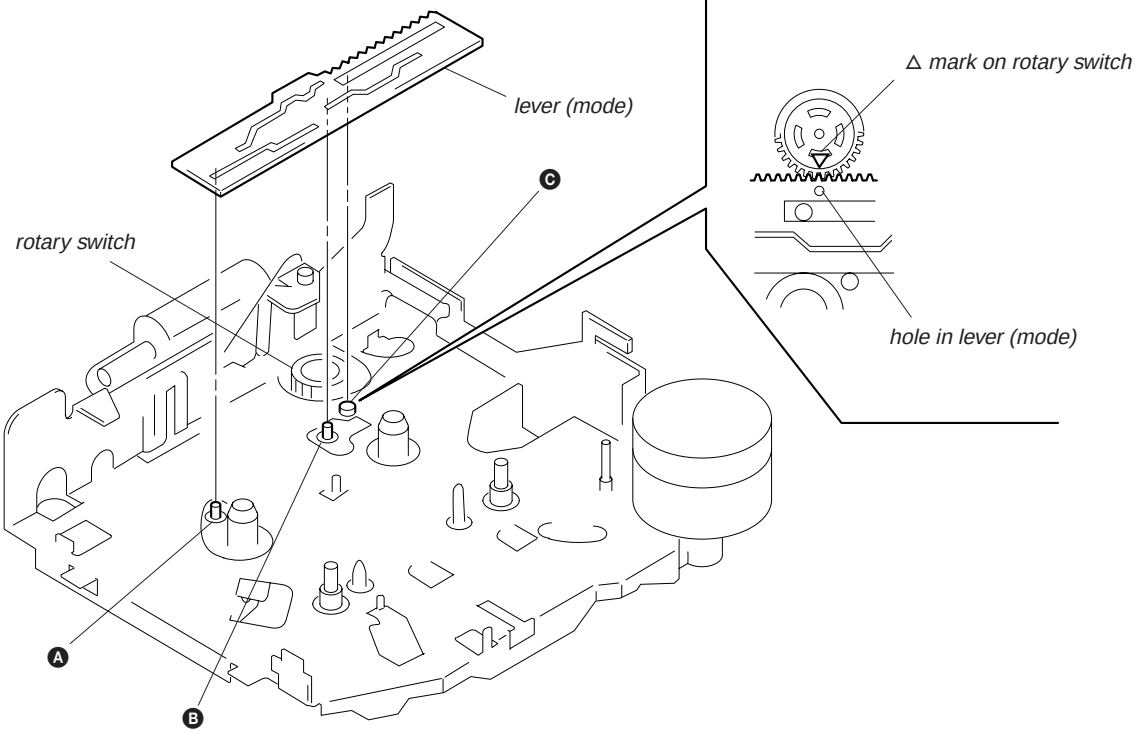


CHASSIS (S) ASS'Y

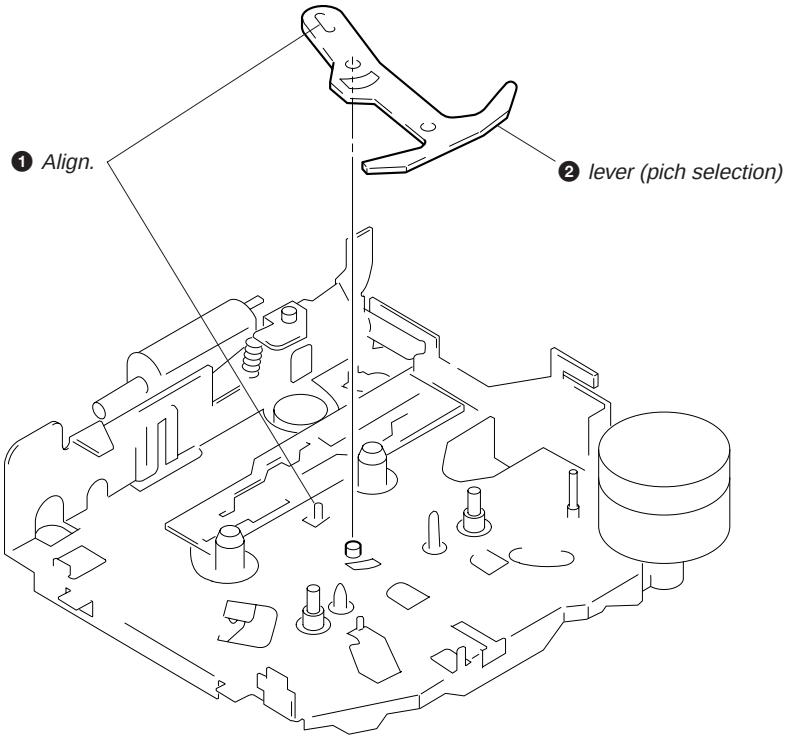


LEVER (MODE)

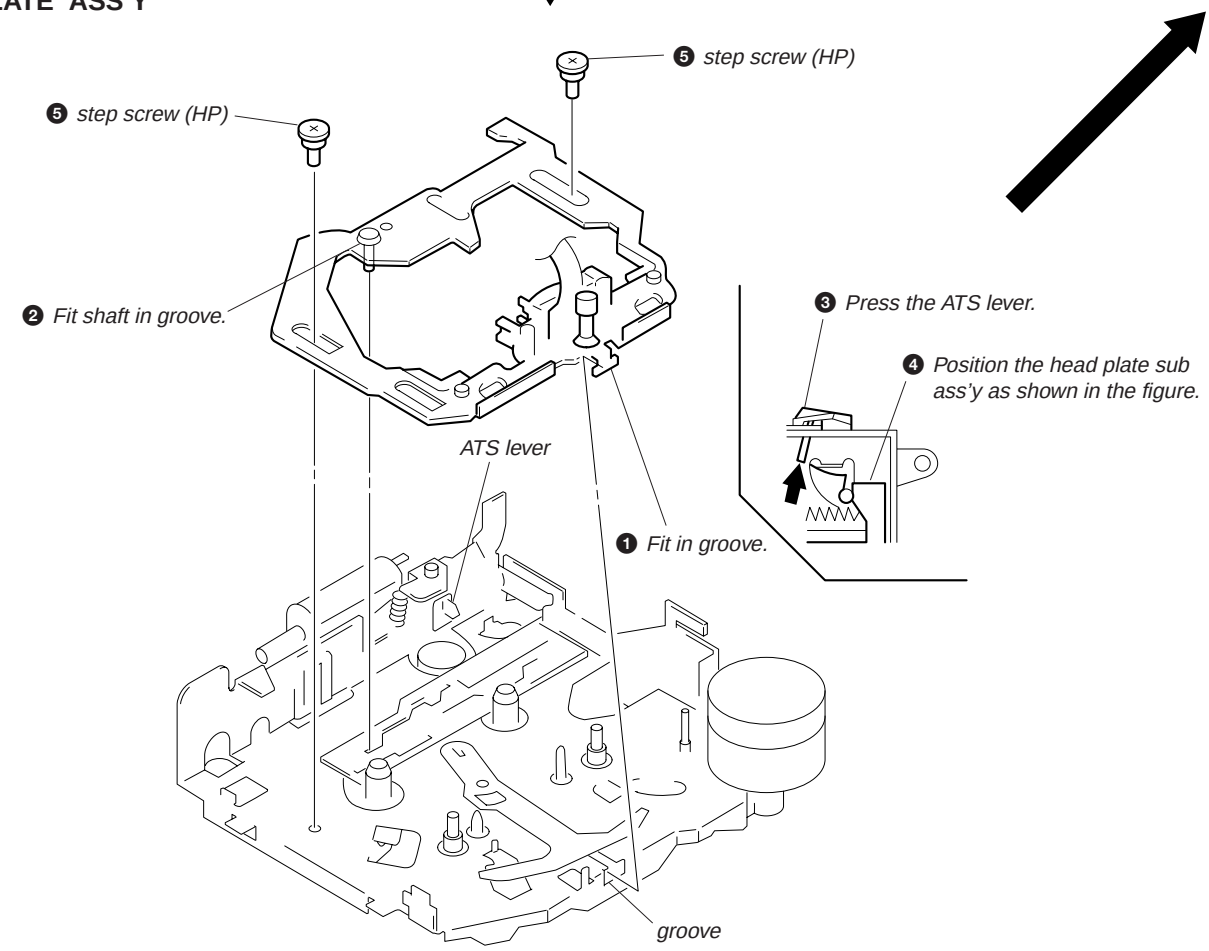
1. *Align △ mark on the rotary switch with hole in the lever (mode).*
2. *Fit on positions Ⓐ, Ⓑ and Ⓒ and install the lever (mode).*



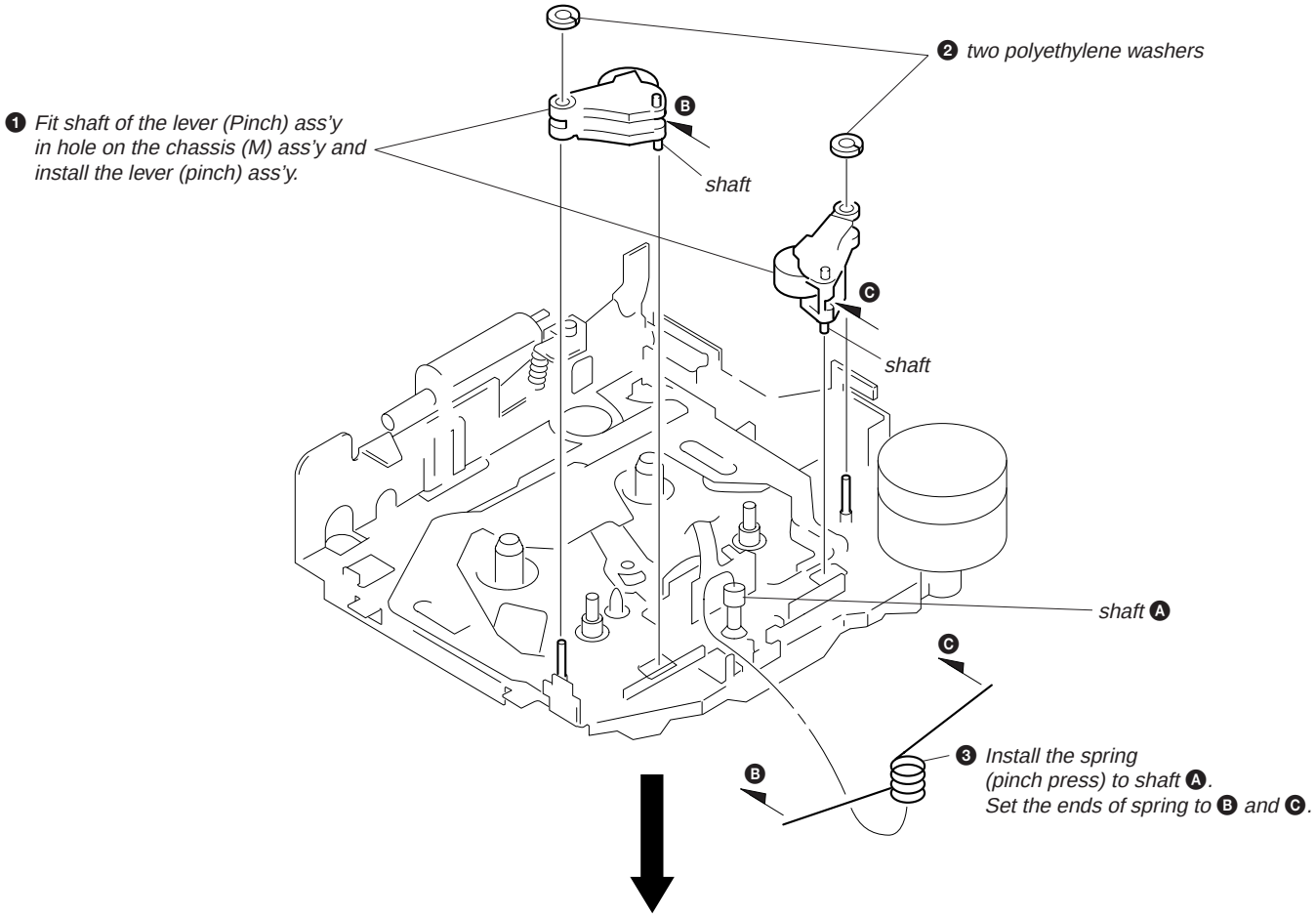
LEVER (PINCH SELECTION)



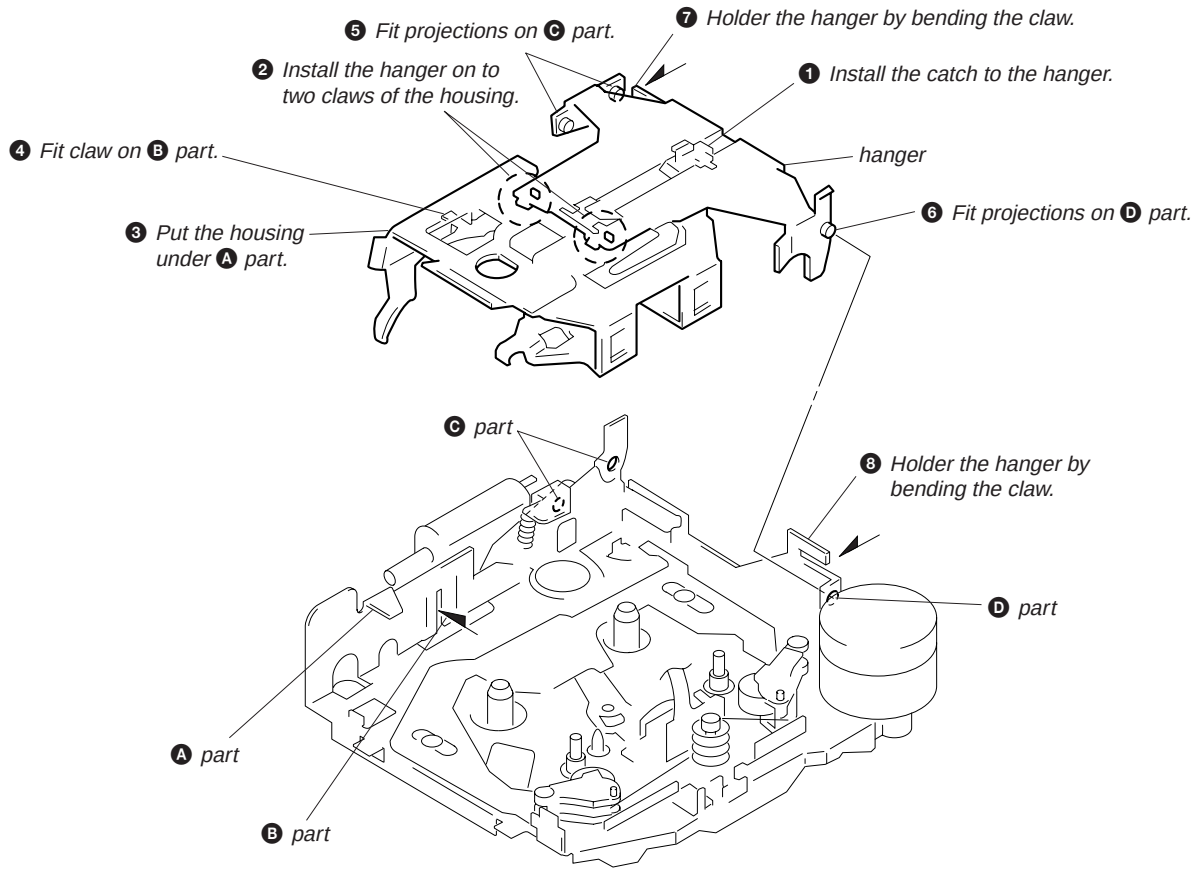
HEAD PLATE ASS'Y


❺ step screw (HP)
❺ step screw (HP)
❷ Fit shaft in groove.
❸ Press the ATS lever.
❹ Position the head plate sub ass'y as shown in the figure.
ATS lever
❶ Fit in groove.
groove

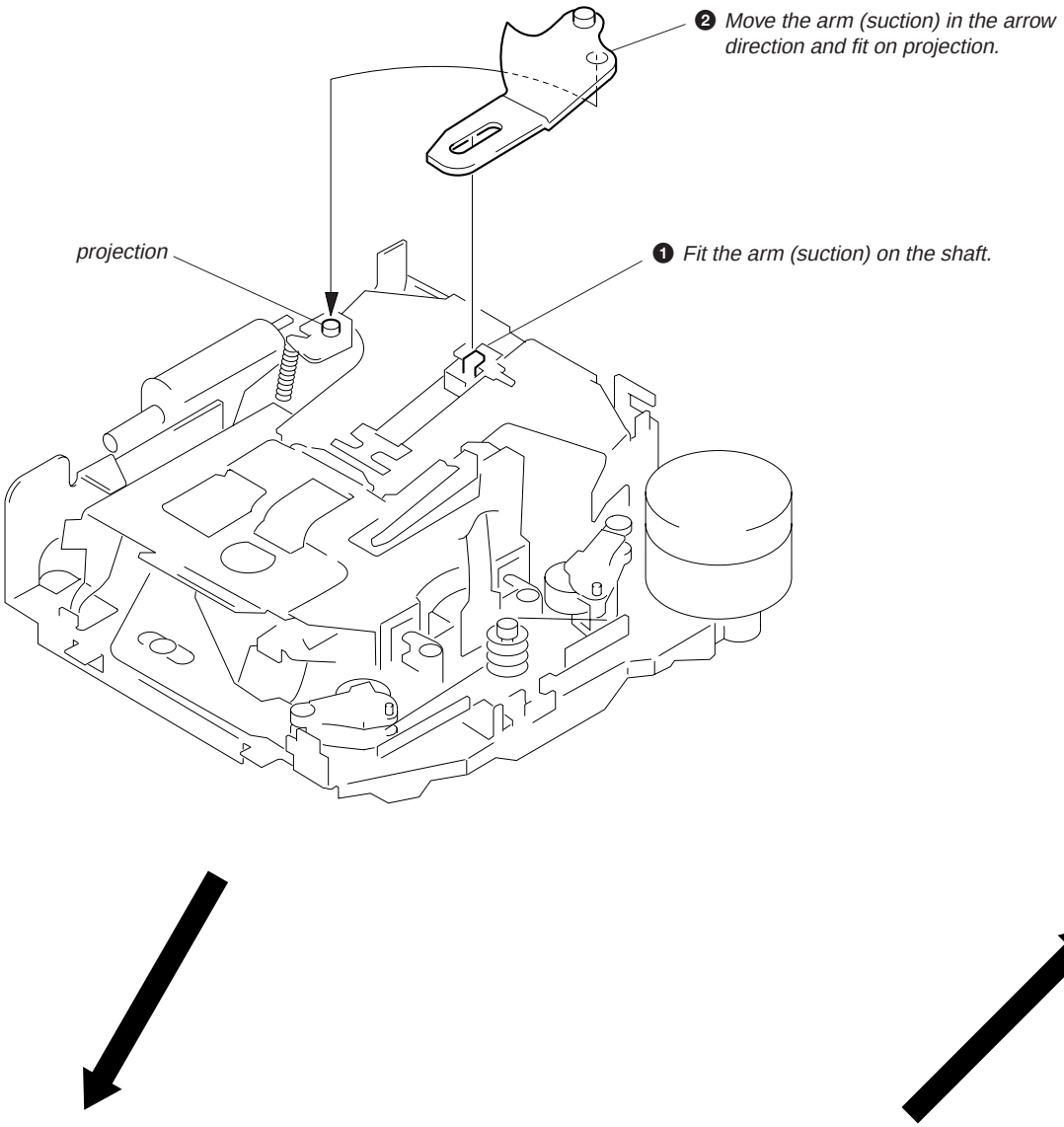
LEVER (PINCH) ASS'Y


❷ two polyethylene washers
❶ Fit shaft of the lever (Pinch) ass'y in hole on the chassis (M) ass'y and install the lever (pinch) ass'y.
B
shaft
C
shaft
shaft A
C
❸ Install the spring (pinch press) to shaft A. Set the ends of spring to B and C.
B

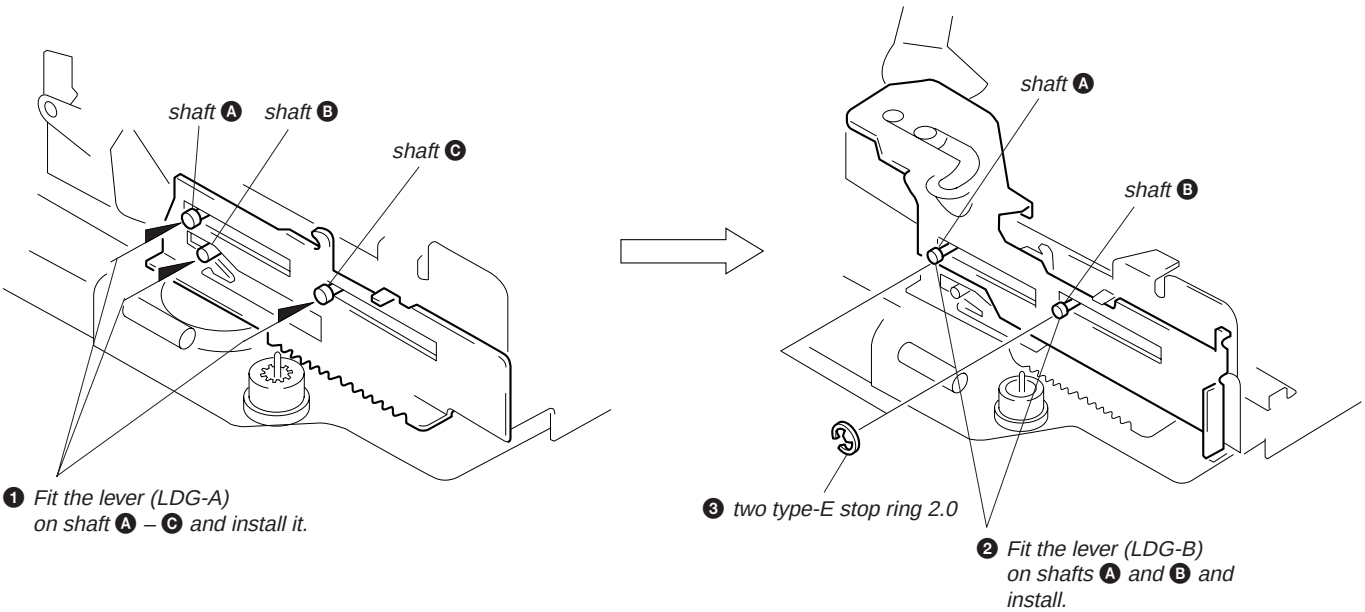
HOUSING


❺ Fit projections on C part.
❼ Holder the hanger by bending the claw.
❷ Install the hanger on to two claws of the housing.
❶ Install the catch to the hanger.
❹ Fit claw on B part.
hanger
❸ Put the housing under A part.
❻ Fit projections on D part.
C part
❽ Holder the hanger by bending the claw.
D part
A part
B part

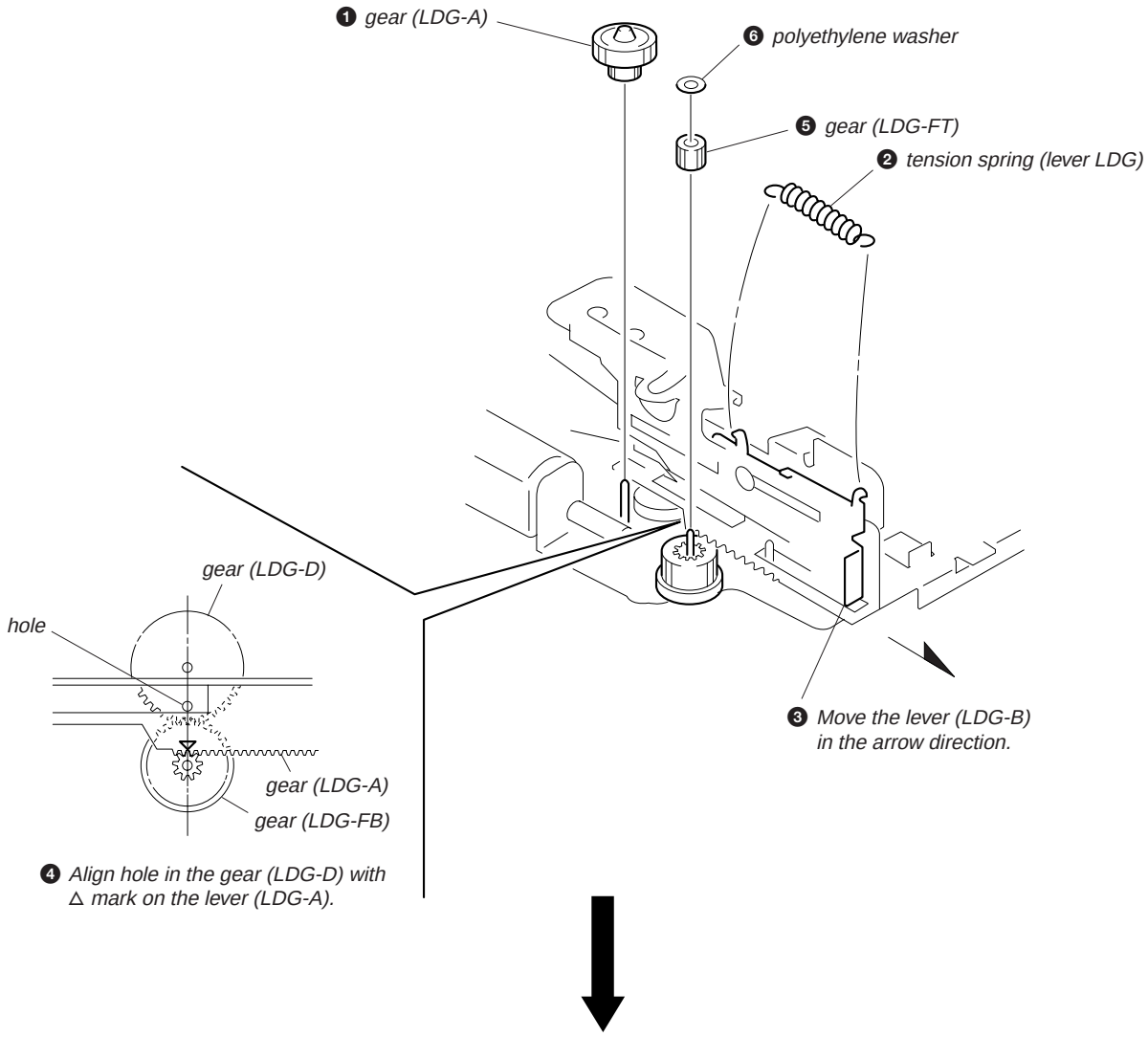
ARM (SUCTION)



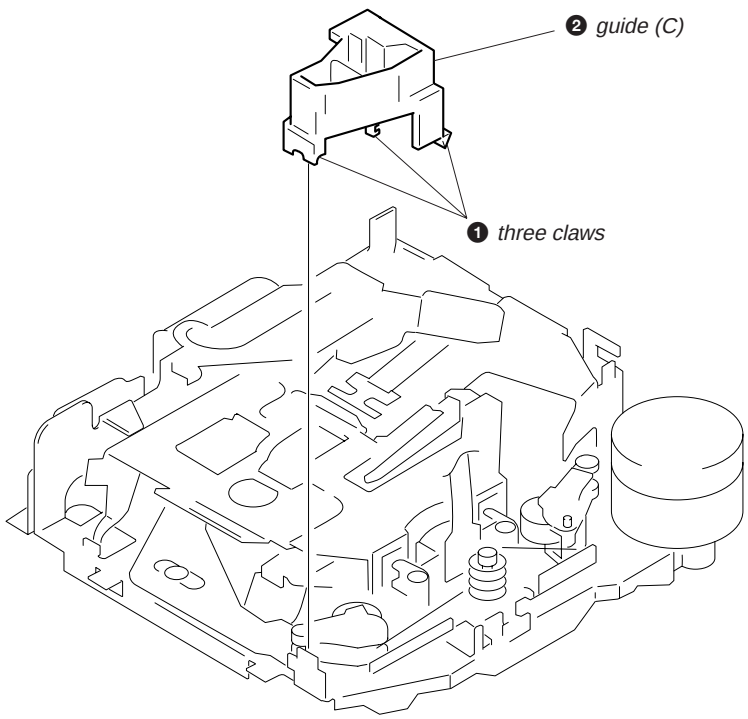
LEVER (LDG-A) / (LDG-B)


shaft Ⓐ
shaft Ⓑ
shaft Ⓒ
❶ Fit the lever (LDG-A) on shaft Ⓐ – Ⓒ and install it.
shaft Ⓐ
shaft Ⓑ
❸ two type-E stop ring 2.0
❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓑ and install.

GEAR (LDG-FT)


❶ gear (LDG-A)
❻ polyethylene washer
❺ gear (LDG-FT)
❷ tension spring (lever LDG)
gear (LDG-D)
hole
gear (LDG-A)
gear (LDG-FB)
❸ Move the lever (LDG-B) in the arrow direction.
❹ Align hole in the gear (LDG-D) with △ mark on the lever (LDG-A).

GUIDE (C)



SECTION 4
MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head pinch roller
   rubber belt capstan
   idler
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the power supply voltage (14.4 V) unless otherwise noted.

• Torque Measurement

Mode	Torqu Meter	Meter Reading
Forward	CQ-102C	35–65 g•cm (0.49–0.90 oz•inch)
Forward Back Tension	CQ-102C	0.5–5.0 g•cm (0.01–0.07 oz•inch)
Reverse	CQ-102RC	35–65 g•cm (0.49–0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.5–5.0 g•cm (0.01–0.07 oz•inch)
FF, REW	CQ-201B	60–200 g•cm (0.83–2.78 oz•inch)

• Tape Tension Measurement

Mode	Torqu Meter	Meter Reading
Forward	CQ-403A	more than 60 g (more than 2.12 oz)
Reverse	CQ-403R	

SECTION 5
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and MW Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

<Set the Test Mode>
1. Set the “OFF” mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

<Release the Test mode>
1. Push the “OFF” button.

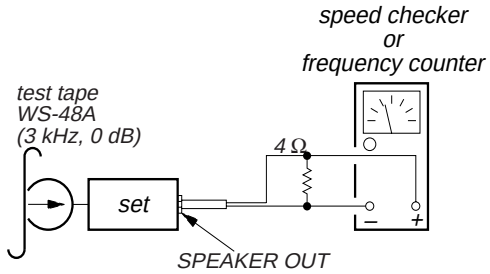
See the adjustment location from on page 20 for the adjustment.

TAPE DECK SECTION | **0 dB=0.775 V**

Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.



Specification: Constant speed

Speed checker	Frequency counter
–1.5 to +2.5%	2,955 to 3,075 Hz

Adjustment Location: See page 20.

TUNER SECTION | **0 dB=1 µV**

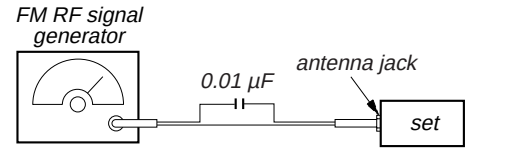
Cautions during repair

When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting:

SOURCE button: FM

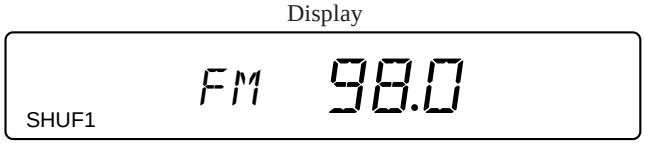


Carrier frequency : 98.0 MHz
Output level : 20 dB (10.0 µV)
Mode : mono
Modulation : 1 kHz, 22.5 kHz deviation (30%)

Procedure:

1. Set to the test mode. (See page 17.)
2. Push the SOURCE button and set to FM.

Display

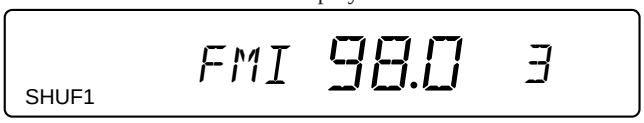


3. Push the preset 3 button.

Display

4. Adjust with the volume RV2 on TU1 so that the “FM” indication turns to “FMI” indication on the display window.
   But, in case of already indicated “FMI”, turn the RV2 so that put out light “I” indication and adjustment.

Display

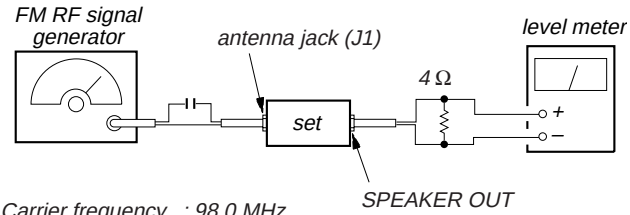


Adjustment Location: See page 20.

FM Stereo Separation Adjustment

Setting:

SOURCE button: FM



Carrier frequency : 98.0 MHz
Output level : 70 dB (3.2 mV)
Mode : stereo
Modulation : main: 1 kHz, 33.75 kHz deviation (45%)
sub: 1 kHz, 33.75 kHz deviation (45%)
19 kHz pilot: 7.5 kHz deviation (10%)

Procedure:

FM Stereo signal generator output channel	Level meter connection	Level meter reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU1 for minimum reading.

L-CH Stereo separation: Ⓐ-Ⓑ
R-CH Stereo separation: Ⓒ-Ⓓ
The separations of both channels should be equal.

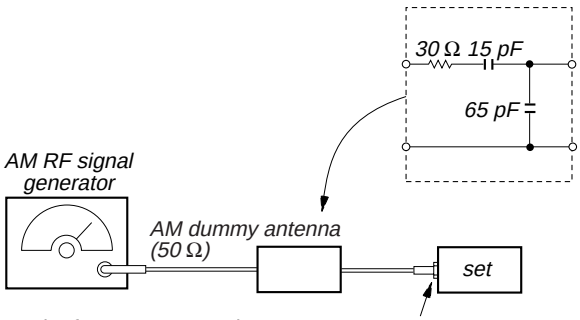
Specification: Separation more than 26 dB

Adjustment Location: See page 20.

MW Auto Scan/Stop Level Adjustment

Setting:

SOURCE and MODE button: MW

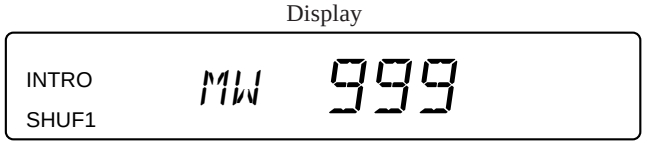


Carrier frequency : 999 kHz
30% amplitude modukation by 1 kHz signal
Output level : 33 dB (44.7 µV)

Procedure:

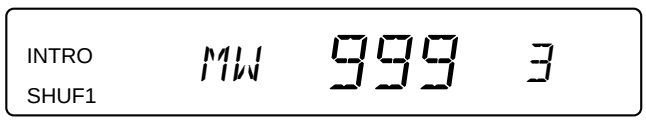
1. Set to the test mode. (See page 17.)
2. Push the SOURCE button and set to FM.
3. Push the MODE button and set to MW.

Display



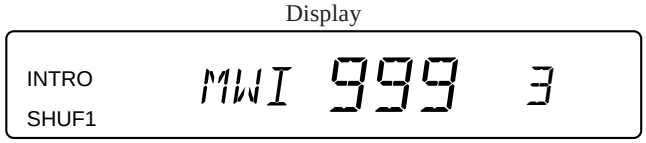
4. Push the preset 3 button.

Display



5. Adjust with the volume RV1 on TU1 so that the “MW” indication turns to “MWI” indication on the display window. But, in case of already indicated “MWI”, turn the RV1 so that put out light “I” indication and adjustment.

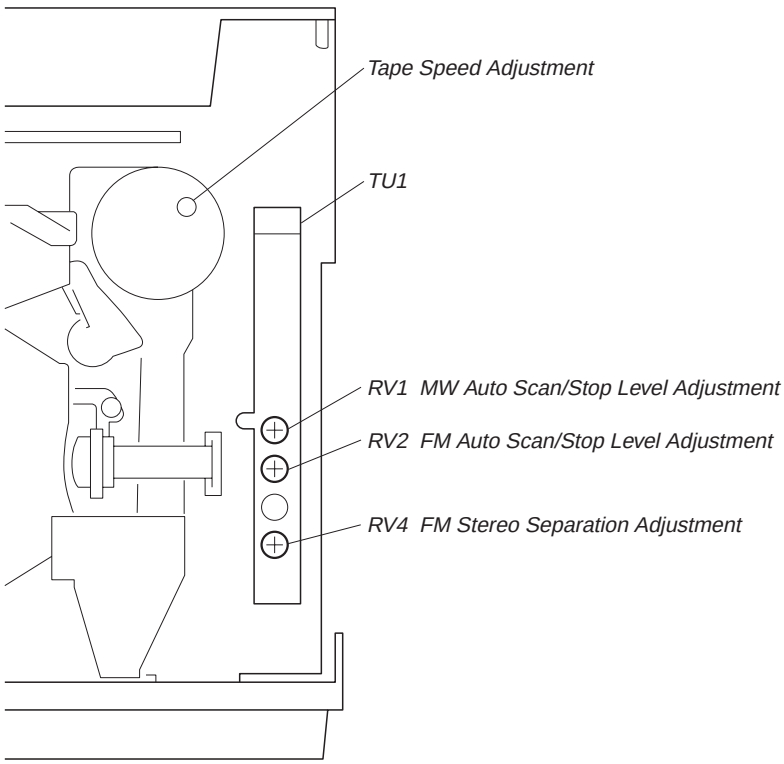
Display



Adjustment Location: See page 20.

Adjustment Location:

– SET UPPER VIEW –


Tape Speed Adjustment
TU1
RV1 MW Auto Scan/Stop Level Adjustment
RV2 FM Auto Scan/Stop Level Adjustment
RV4 FM Stereo Separation Adjustment

SECTION 6
DIAGRAMS

6-1. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 µPD17707GC-522-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Function
1	NIL	–	Not used
2, 3	POS3,POS2	I	Tape position detection pin
4, 5	POS0,POS1	I	Tape position detection pin
6	TAPEON	O	Tape power supply control pin
7	CM_ON	O	Capstan motor control pin
8	LM_LOD	O	Loading motor control pin (loadig direction)
9	LM_EJ	O	Loading motor control pin (eject direction)
10	TUNON	O	Tuner power supply control pin
11	FM_ON	O	FM power supply control pin
12	PW_ON	O	System power supply control pin
13	MUTE	O	System muting control pin At muting: “H”
14	VOLCE	O	Chip enable output pin to electrical volume
15	VOLCKO	O	Clock output pin to electrical volume
16	VOLSO	O	Data output pin to electrical volume
17	AMPON	O	Power amp power supply control pin
18	$\overline{\text{AMPMUT}}$	O	Power amp muting control pin At muting: “L”
19	$\overline{\text{DX}}$_LO	O	DX/local selection control pin
20	NC1	–	Not used
21	GND	–	GND
22	DSTSEL	I	Destination setting pin (A/D input)
23	D_BASS	I	D-BASS switch input pin (A/D input)
24, 25	KEYIN1, KEYIN0	I	Key input pin (A/D input)
26	RC_IN0	I	Rotary remote commander input pin (A/D input)
27	VSM	I	FM/AM signal meter voltage detection pin (A/D input)
28	AMIFIN	I	AM(MW,SW) IF input pin
29	FMIFIN	I	FM IF input pin
30	VDD	–	Power supply
31	FM_OSC	I	FM OSC signal input pin
32	AM_OSC	I	AM OSC signal input pin
33	GND	–	GND
34	NC2	–	Not used
35	EO1	O	Main charge-pump output pin
36	TEST0	I	Test pin
37	NC3	–	Not used
38	$\overline{\text{SEKOUT}}$	O	SEEK control signal output pin
39	NC4	–	Not used
40	BEEP	O	Beep sound output pin
41	KEYACK	O	Key acknowledge signal input pin
42	BU_IN	I	Back up power supply detection pin
43	MTLSEL	I/O	METAL control input/output pin At initial mode: auto/manual selection input of METAL function “L”: manual At manual mode: METAL on/off output “H”: on At auto mode: input at ⑤⑨ MTLIN
44	DOLON	I/O	DOLBY control input/output pin At initial mode: valid/invalid selection input of DOLBY function At normal mode: DOLBY on/off output
45	$\overline{\text{AMSIN}}$	I	Tape music with/without detection pin “L”: with music
46	ST	I/O	Stereo detection signal input and forced monaural signal output pin
47	AMSON	O	At AMS: “L”
48	N_$\overline{\text{R}}$OUT	O	Forward/reverse control pin

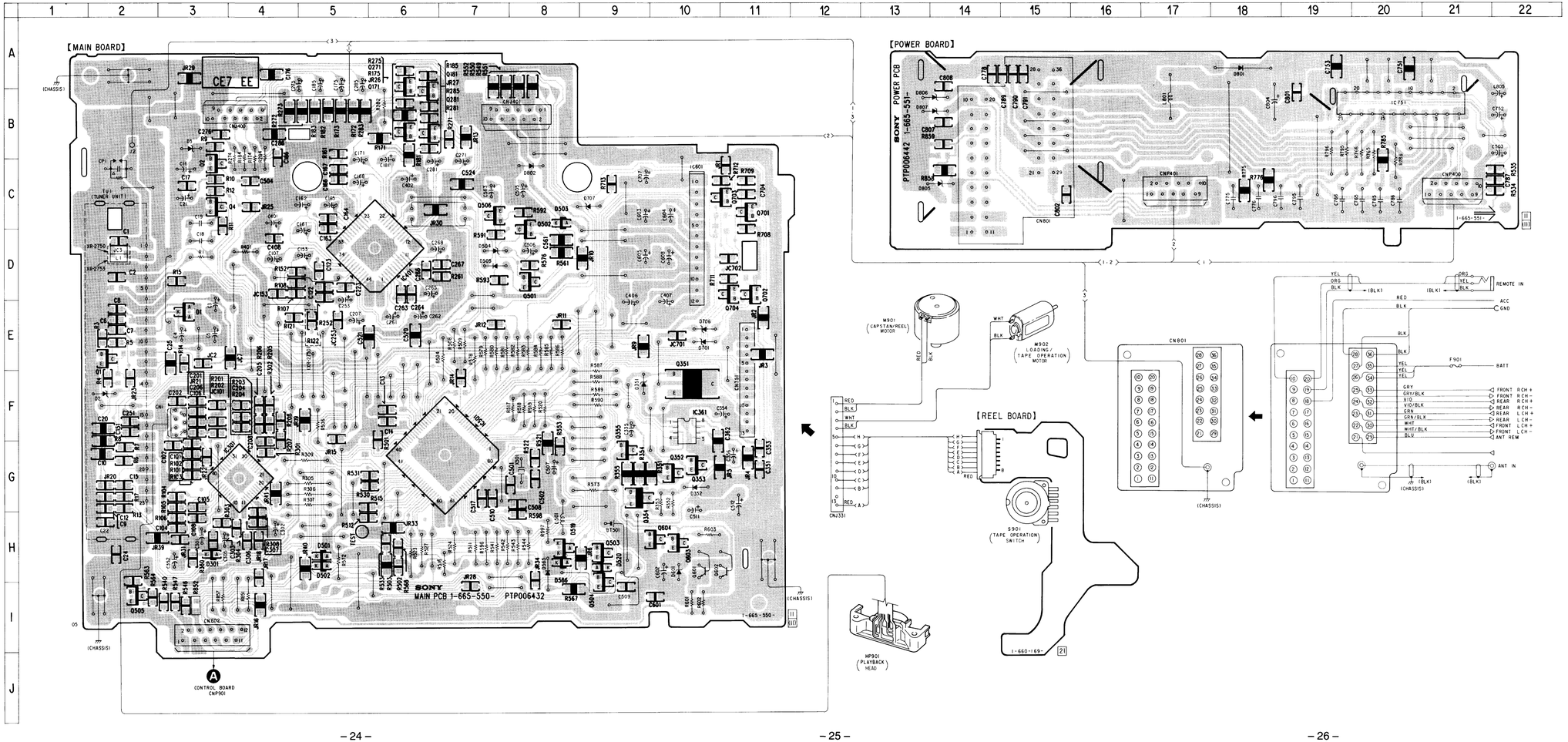
Pin No.	Pin Name	I/O	Function
49	TAPMUT	O	Tape muting control pin At muting: “H”
50	ILLON	O	Illumination power supply control pin At PW SEL on: ACC on: “H” At PW SEL off: Power on: “H”
51	SD_IN	I	Station detection signal input pin
52	$\overline{\text{NOSESW}}$	I	Front panel removal or attaching detection pin
53	$\overline{\text{TELMUT}}$	I	Telephone muting detection pin “L”: 20dB audio muting
54	REL	I	Reel table rotation detection pin
55	$\overline{\text{ACCIN}}$	I	Accessory voltage detection pin
56	$\overline{\text{TESTIN}}$	I	Test mode setting pin
57	RC_IN1	I	Rotary remote commander input pin (A/D input)
58	PW_SEL	I	Power select switch input pin
59	MTLIN	I	AUTO METAL detection pin “L”: METAL
60	AD_ON	O	Power supply control pin for A/D conversion
61	KEYSEL	I	Key function setting pin
62	SEKOUTSEL	I	Active select pin for ㊳ SEKOUT
63	NC5	–	Not used (Fixed at “H”)
64	LCDCE	O	LCD chip enable output pin
65	LCDCKO	O	LCD clock output pin
66	LCDSO	O	LCD data output pin
67	$\overline{\text{LCDINH}}$	O	LCD brank indication control pin
68	CLK_SEL	I	Not used (Fixed at “H”)
69	NC7	–	Not used
70	NC8	–	Not used (Fixed at “L”)
71	NC9	–	Not used
72	NC10	–	Not used
73	NC11	–	Not used
74	VREG	O	CPU regurator output pin
75	GND	–	GND
76	X_OUT	O	System clock output pin (4.5 MHz)
77	X_IN	I	System clock input pin (4.5 MHz)
78	CE	I	Fixed at “H”
79	VDD	–	Power supply
80	$\overline{\text{RESET}}$	I	Reset input pin

6-2. PRINTED WIRING BOARDS – MAIN Section –

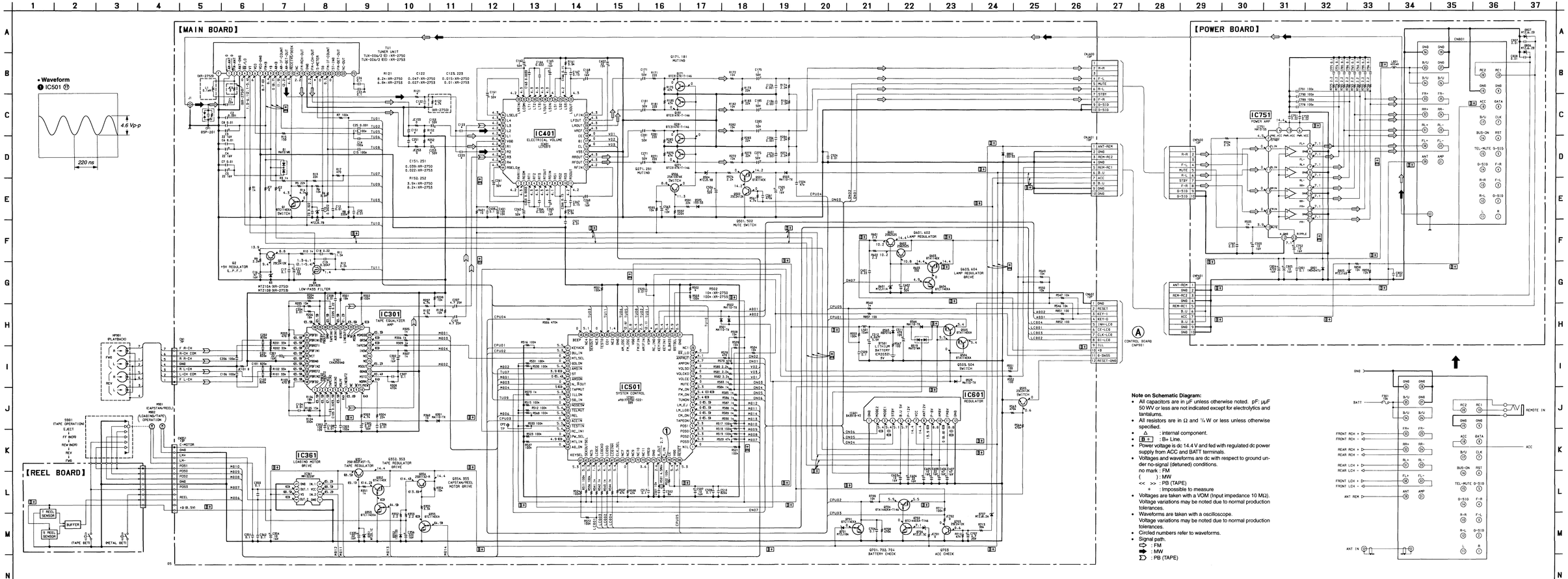
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	E-3	IC601	C-10
D2	F-2	IC751	B-20
D3	B-3		
D301	H-3	Q1	E-2
D351	F-9	Q2	C-3
D352	G-10	Q4	C-3
D501	H-5	Q171	B-6
D502	H-5	Q181	B-6
D503	C-8	Q271	A-6
D504	D-7	Q281	B-6
D505	D-7	Q351	F-10
D519	H-8	Q352	G-10
D520	H-9	Q353	G-10
D565	H-8	Q354	G-9
D566	H-8	Q355	G-9
D601	H-10	Q501	D-8
D701	E-10	Q502	D-8
D706	E-10	Q503	H-9
D707	C-9	Q504	I-9
D801	A-18	Q505	I-2
D802	C-8	Q506	C-7
D805	C-14	Q601	H-10
D806	B-14	Q602	H-11
D807	B-14	Q603	H-10
		Q604	H-10
IC301	G-4	Q701	C-11
IC361	F-10	Q702	D-11
IC401	D-6	Q703	C-11
IC501	G-7	Q704	D-11

Note on Printed Wiring Board:
- ○—— : parts extracted from the component side.
- △ : internal component.



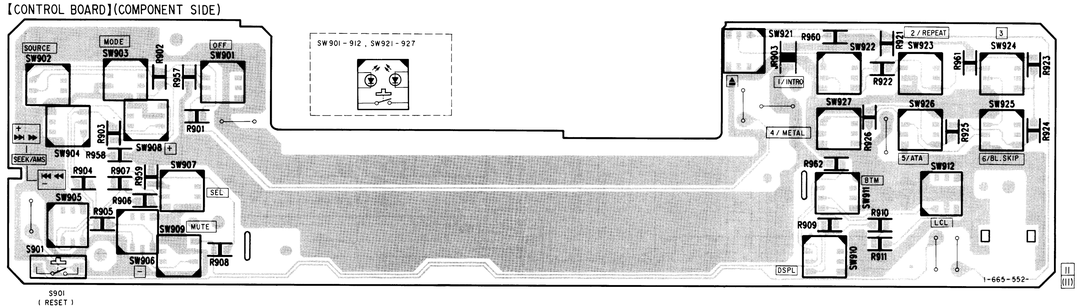
6-3. SCHEMATIC DIAGRAM – MAIN Section – • See page 37 for IC Block Diagrams.

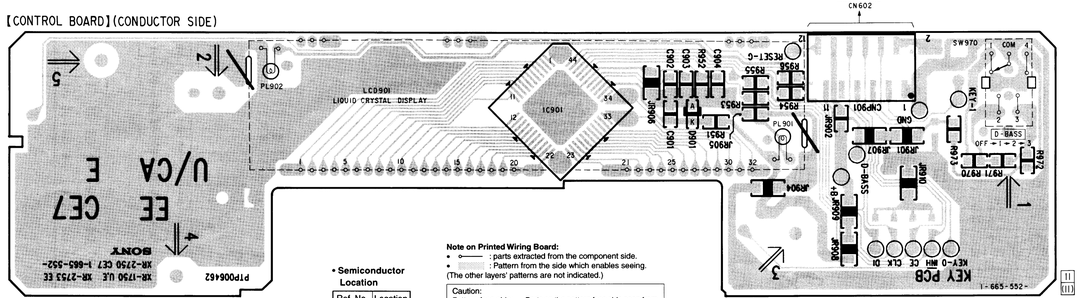


Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT terminals.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW
  << >> : PB (TAPE)
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : MW
  ⇨ : PB (TAPE)

6-4. PRINTED WIRING BOARD – CONTROL Section –





• **Semiconductor Location**

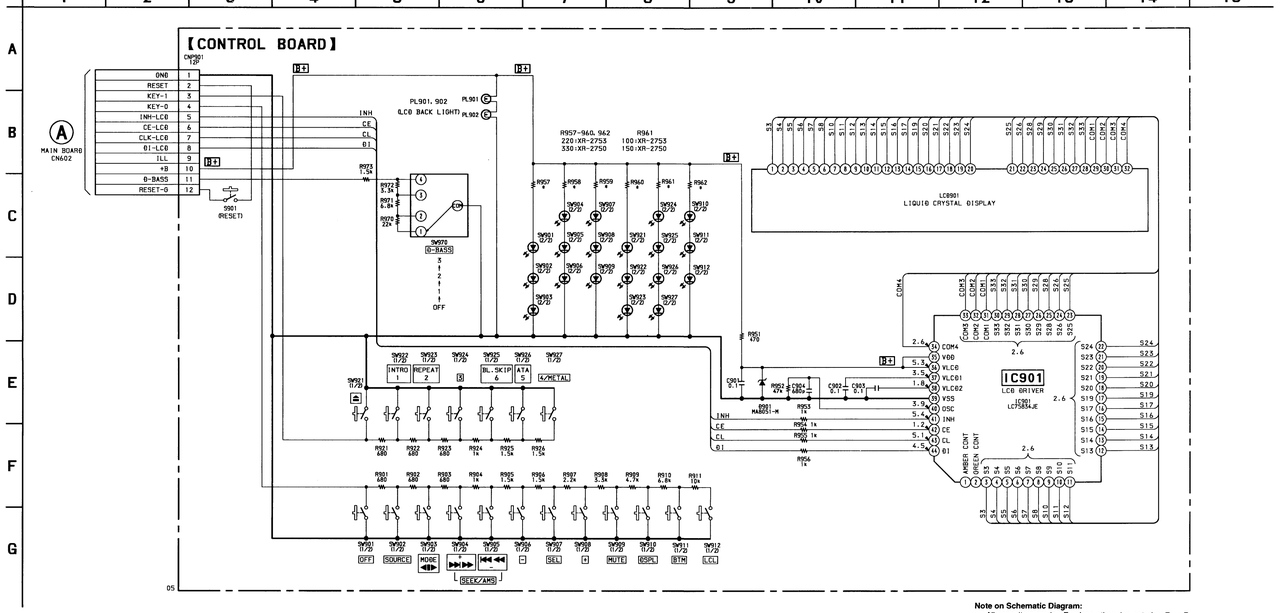
Ref. No.	Location
D901	E-8
IC901	E-6

Note on Printed Wiring Board:
- ○—— : parts extracted from the component side.
- ▨ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

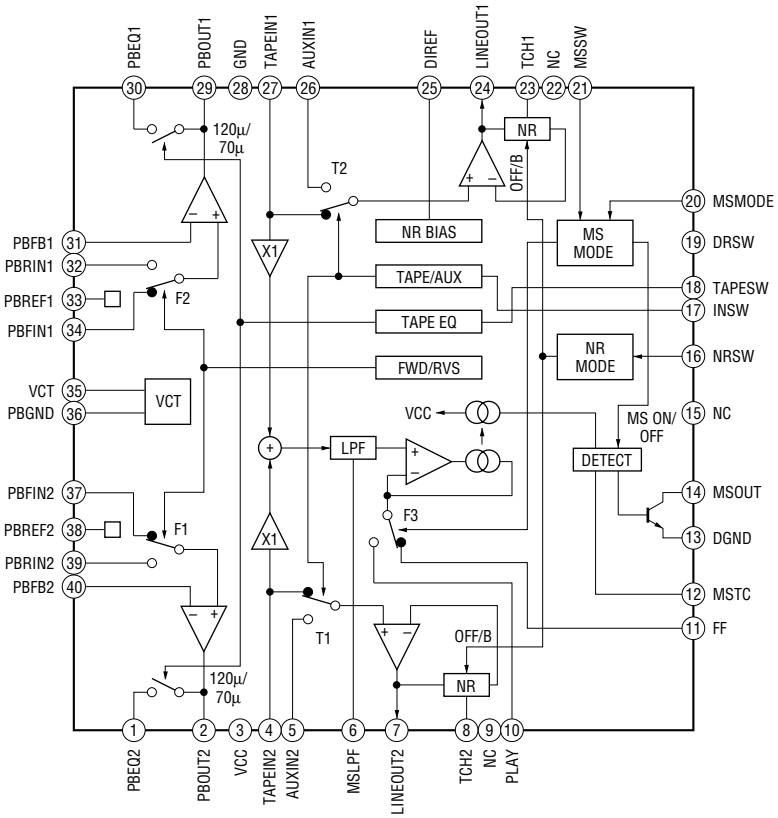
6-5. SCHEMATIC DIAGRAM – CONTROL Section –



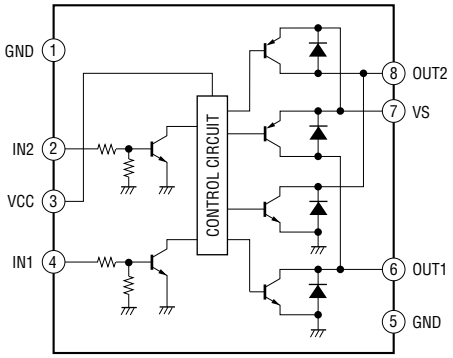
Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- [ ] : panel designation.
- [B+] : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT terminals.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

• **IC Block Diagrams**

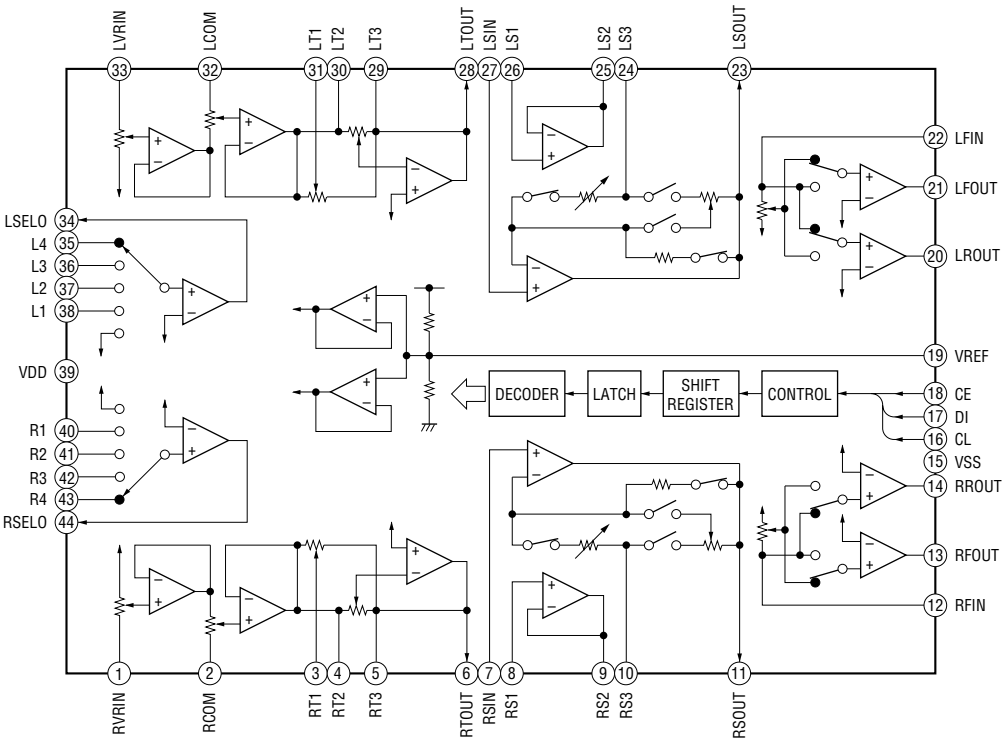
IC301 CXA2509AQ-T4



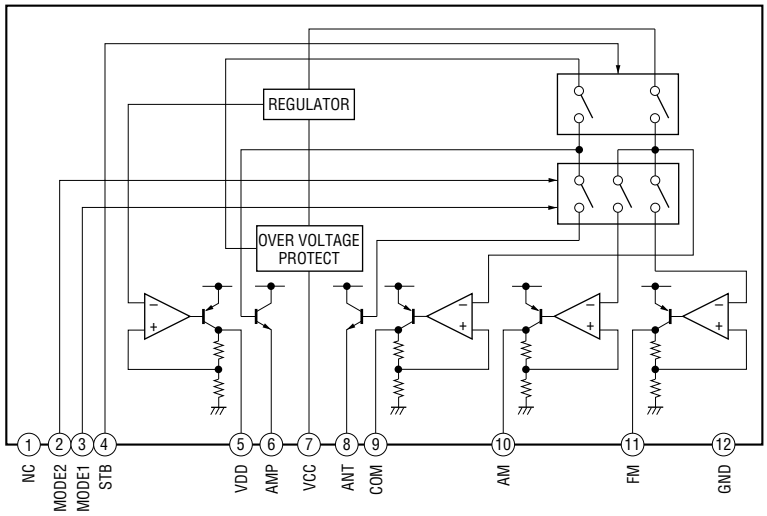
IC361 MM1322XFBE



IC401 LC75373ED



IC601 BA3918-V2

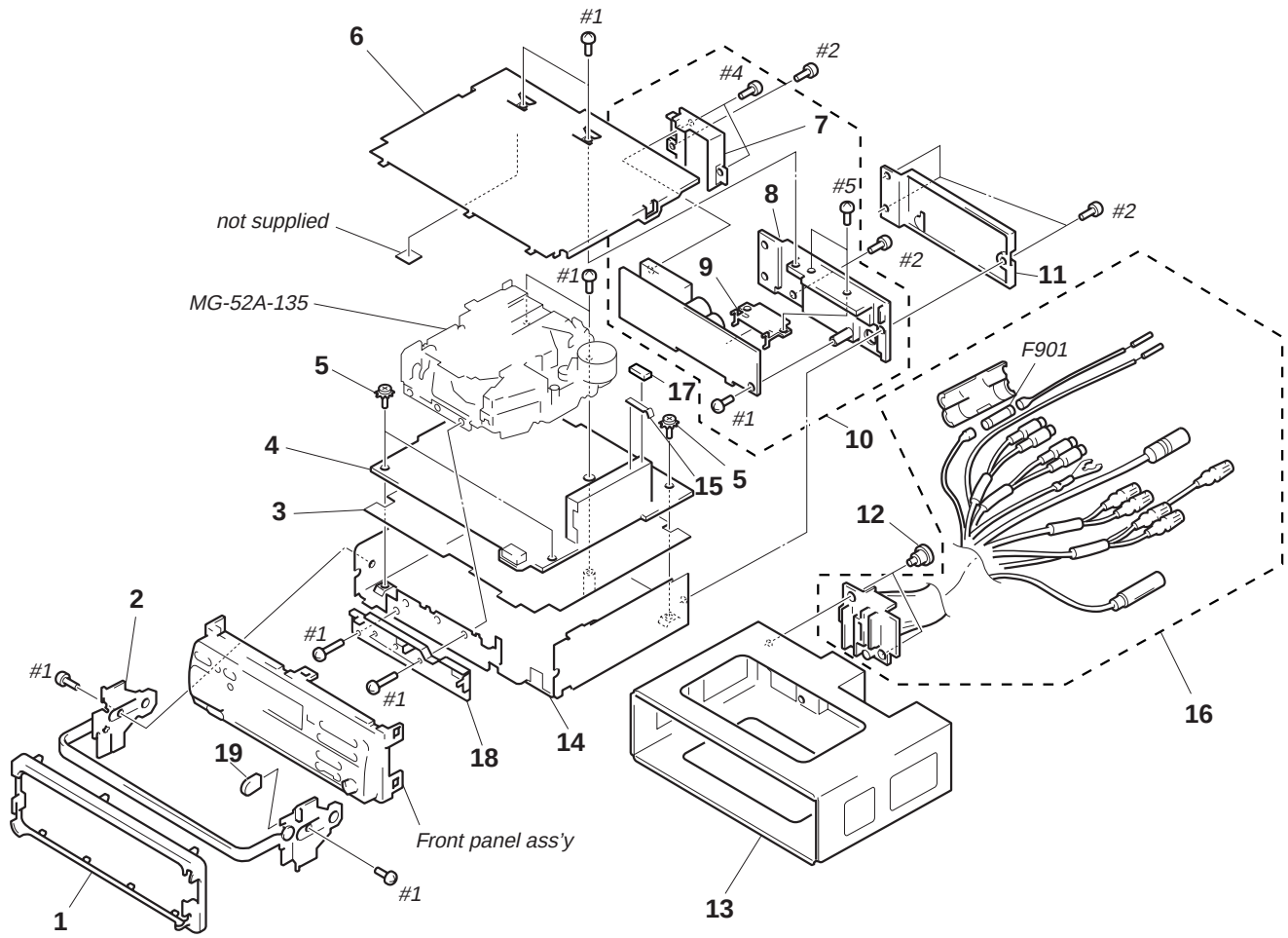


SECTION 7
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

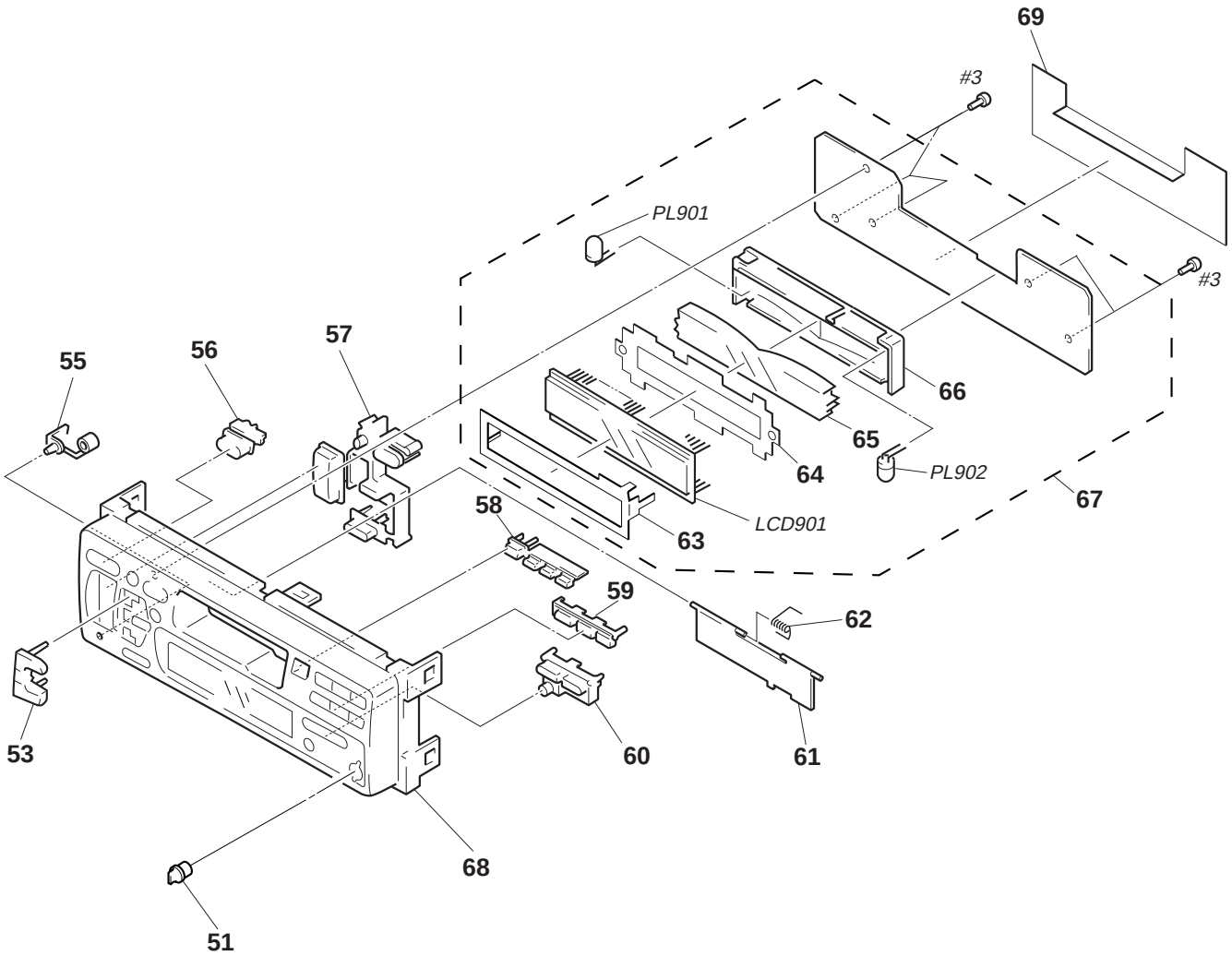
(1) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	3-012-567-01	COLLAR (A)	
2	X-3372-126-1	HANDLE ASSY	
* 3	3-012-574-01	INSULATOR	
* 4	A-3313-089-A	MAIN BOARD, COMPLETE (XR-2753)	
* 4	A-3313-117-A	MAIN BOARD, COMPLETE (XR-2750)	
5	3-915-923-01	SCREW, GROUND POINT	
* 6	3-012-565-01	COVER	
* 7	3-012-568-01	BRACKET (CONNECTOR)	
* 8	3-012-569-01	HEAT SINK	
* 9	3-012-566-01	BRACKET (IC)	
* 10	A-3313-090-A	POWER BOARD, COMPLETE (XR-2753)	

Ref. No.	Part No.	Description	Remark
* 10	A-3313-118-A	POWER BOARD, COMPLETE (XR-2750)	
11	3-012-575-01	PANEL (REAR)	
12	3-340-614-11	SCREW (JACK), STEP	
13	3-012-593-01	BRACKET	
* 14	X-3373-590-1	CHASSIS ASSY	
15	3-937-650-01	PLATE (C), GROUND	
16	1-782-344-11	CORD (WITH CONNECTOR) (POWER)	
17	9-911-840-XX	CUTION (U)	
* 18	3-014-628-01	CHASSIS, FRONT	
19	3-012-577-01	BUTTON (RELEASE)	
F901	1-532-677-00	FUSE, GLASS TUBE (10A)	

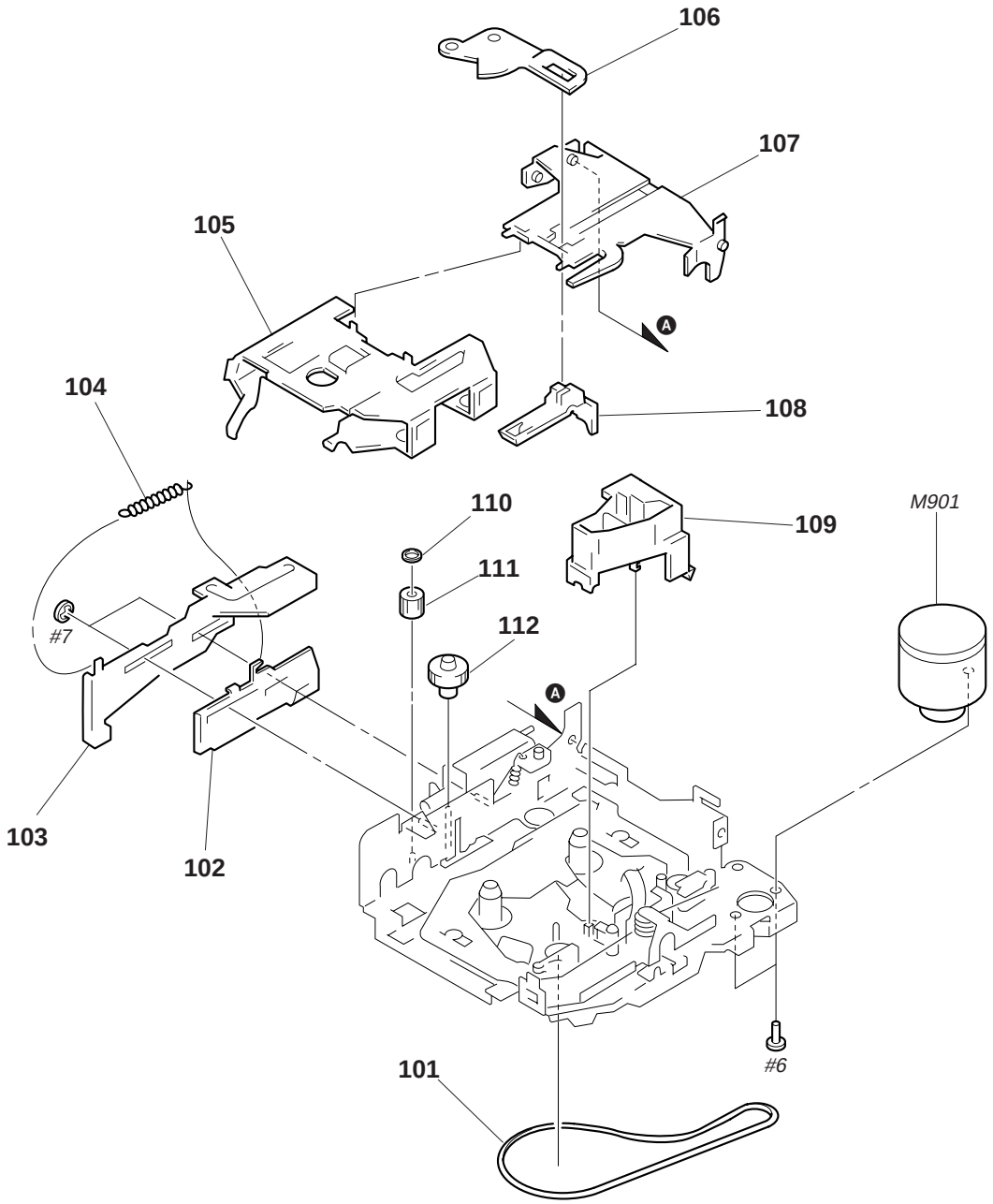
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-009-301-01	BUTTON (BASS)	
53	3-009-299-01	BUTTON (L2) (+.–)	
55	3-012-576-01	BUTTON (RESET)	
56	3-009-300-01	BUTTON (SOURCE)	
57	3-009-867-01	BUTTON (L) (3) (●. OFF. + ▶▶I ▶▶ SEEK AMS. I◀◀ ◀◀ –. SEL. MUTE)	
58	3-009-308-01	BUTTON (1-3) (⏏. 1. 2. 3)	
59	3-009-309-11	BUTTON (4-6) (4. 5. 6)	
60	3-009-315-01	BUTTON (R) (3) (BTM. LCL. ●)	
61	3-932-205-21	DOOR, CASSETTE	
62	3-935-003-01	SPRING, TORSION	

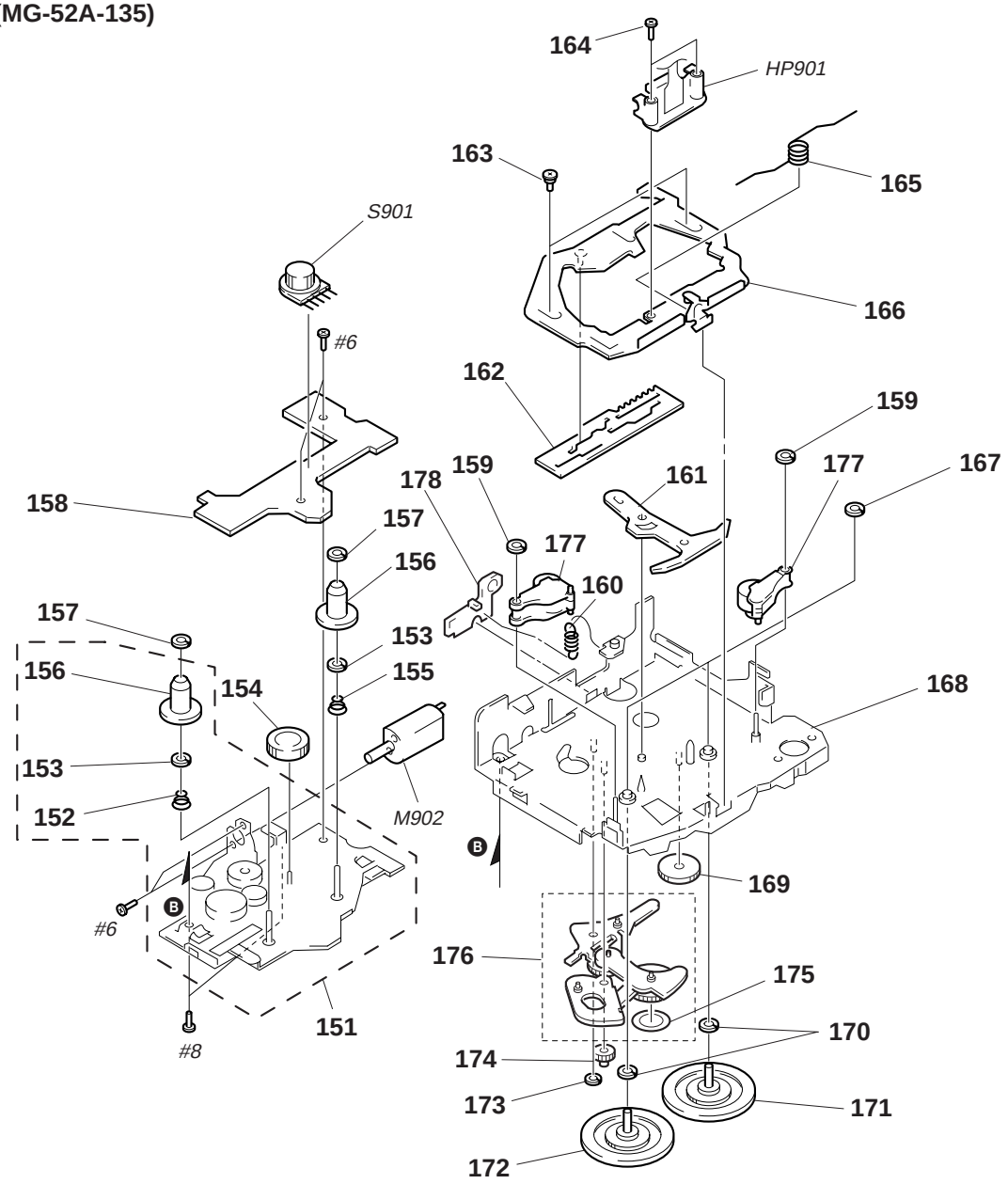
Ref. No.	Part No.	Description	Remark
* 63	3-010-282-01	PLATE (LCD), GROUND	
* 64	3-009-305-01	SHEET (REFLECTOR)	
* 65	3-009-302-01	PLATE (LCD), LIGHT GUIDE	
* 66	3-009-303-01	HOLDER (LCD)	
* 67	A-3294-286-A	CONTROL BOARD, COMPLETE (XR-2753)	
* 67	A-3294-294-A	CONTROL BOARD, COMPLETE (XR-2750)	
68	X-3374-100-1	PANEL SUB ASSY (XR-2750)	
68	X-3374-101-1	PANEL SUB ASSY (XR-2753)	
* 69	3-016-107-01	SHEET (F)	
LCD901	1-801-587-11	DISPLAY PANEL, LIQUID CRYSTAL	
PL901	1-517-633-11	LAMP, PILOT	
PL902	1-517-633-11	LAMP, PILOT	

(3) MECHANISM DECK SECTION-1 (MG-52A-135)



Ref. No.	Part No.	Description	Remark
101	3-928-675-01	BELT (52)	
* 102	3-928-673-01	LEVER (LDG-A)	
103	3-928-674-01	LEVER (LDG-B)	
104	3-933-341-01	SPRING (LEVER LDG), TENSION	
105	3-928-671-01	HOUSING	
* 106	3-933-347-01	ARM (SUCTION)	
107	3-933-340-01	HANGER	
108	3-933-346-01	CATCHER	
109	3-933-344-01	GUIDE (C)	
110	3-341-753-11	WASHER, POLYETHYLENE	
111	3-933-335-01	GEAR (LDG-FT)	
112	3-928-667-01	GEAR (LDG-A)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

(4) MECHANISM DECK SECTION-2 (MG-52A-135)



Ref. No.	Part No.	Description	Remark
151	X-3371-710-1	CHASSIS (S) ASSY	
152	3-933-337-01	SPRING (B-T-R), CONE COIL	
153	3-701-437-01	POLY-SLIDER (A)	
154	3-933-333-01	GEAR (LDG-E)	
155	3-933-339-01	SPRING (B-T-F), CONE COIL	
156	3-933-345-01	GEAR, REEL	
157	3-954-807-01	WASHER	
158	1-660-169-21	REEL BOARD	
159	3-341-752-11	WASHER, POLYETHYLENE	
160	3-933-336-01	SPRING (ARM HANGER), TENSION	
161	3-928-669-01	LEVER (PINCH SELECTION)	
162	3-928-668-01	LEVER (MODE)	
163	3-933-338-01	SCREW (HP), STEP	
164	3-927-100-01	SCREW (+PS 2X10), SPECIAL	
165	3-928-670-01	SPRING (PINCH PRESS)	
* 166	X-3371-712-1	PLATE SUB ASSY, HEAD	

Ref. No.	Part No.	Description	Remark
167	3-364-151-01	WASHER	
* 168	X-3371-701-1	CHASSIS (M) SUB ASSY (A)	
169	X-3371-707-1	CLUTCH (PLAY) ASSY	
170	3-701-437-21	WASHER	
171	3-930-932-01	FLYWHEEL (F) (SEF)	
172	A-3291-667-A	CLUTCH (FR) ASSY	
173	3-321-813-01	WASHER, COTTER POLYETHYLENE	
174	3-933-343-01	GEAR (REVERSE)	
175	3-933-383-01	SEAL (32), REFLECTION	
176	X-3371-703-1	LEVER (GEAR) ASSY	
177	X-3371-713-2	LEVER (PINCH) ASSY	
178	X-3371-706-2	ARM (HANGER) ASSY	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
M902	A-3291-664-A	MOTOR ASSY, SUB (LOADING/TAPE OPERATION)	
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	

SECTION 8
ELECTRICAL PARTS LIST

CONTROL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3294-286-A	CONTROL BOARD, COMPLETE (XR-2753)			
*	A-3294-294-A	CONTROL BOARD, COMPLETE (XR-2750)			
		**********			
*	3-009-302-01	PLATE (LCD), LIGHT GUIDE			
*	3-009-303-01	HOLDER (LCD)			
*	3-009-305-01	SHEET (REFLECTOR)			
*	3-010-282-01	PLATE (LCD), GROUND			
*	3-012-586-01	INSULATOR (LCD)			
		< CAPACITOR >			
C901	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C902	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C903	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C904	1-163-137-00	CERAMIC CHIP	680PF	5% 50V	
		< CONNECTOR >			
CNP901	1-778-960-21	SOCKET, CONNECTOR 12P			
		< DIODE >			
D901	8-719-422-43	DIODE MA8051-H			
		< IC >			
IC901	8-759-443-68	IC LC75834JED			
		< CHIP CONDUCTOR >			
JR901	1-216-296-00	CONDUCTOR, CHIP	(3216)		
JR902	1-216-295-00	CONDUCTOR, CHIP	(2012)		
JR903	1-216-296-00	CONDUCTOR, CHIP	(3216)		
JR904	1-216-296-00	CONDUCTOR, CHIP	(3216)		
JR905	1-216-295-00	CONDUCTOR, CHIP	(2012)		
JR906	1-216-296-00	CONDUCTOR, CHIP	(3216)		
JR907	1-216-296-00	CONDUCTOR, CHIP	(3216)		
JR908	1-216-296-00	CONDUCTOR, CHIP	(3216)		
JR909	1-216-296-00	CONDUCTOR, CHIP	(3216)		
JR910	1-216-296-00	CONDUCTOR, CHIP	(3216)		
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-801-588-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< PILOT LAMP >			
PL901	1-517-633-11	LAMP, PILOT			
PL902	1-517-633-11	LAMP, PILOT			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R901	1-216-045-00	METAL CHIP	680	5% 1/10W	
R902	1-216-045-00	METAL CHIP	680	5% 1/10W	
R903	1-216-045-00	METAL CHIP	680	5% 1/10W	
R904	1-216-049-11	METAL CHIP	1K	5% 1/10W	
R905	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R906	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R907	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R908	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R909	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R910	1-216-069-00	METAL CHIP	6.8K	5% 1/10W	
R911	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R921	1-216-045-00	METAL CHIP	680	5% 1/10W	
R922	1-216-045-00	METAL CHIP	680	5% 1/10W	
R923	1-216-045-00	METAL CHIP	680	5% 1/10W	
R924	1-216-049-11	METAL CHIP	1K	5% 1/10W	
R925	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R926	1-216-053-00	METAL CHIP	1.5K	5% 1/10W	
R951	1-216-041-00	METAL CHIP	470	5% 1/10W	
R952	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R953	1-216-049-11	METAL CHIP	1K	5% 1/10W	
R954	1-216-049-11	METAL CHIP	1K	5% 1/10W	
R955	1-216-049-11	METAL CHIP	1K	5% 1/10W	
R956	1-216-049-11	METAL CHIP	1K	5% 1/10W	
R957	1-216-033-00	METAL CHIP	220	5% 1/10W	(XR-2753)
R957	1-216-037-00	METAL CHIP	330	5% 1/10W	(XR-2750)
R958	1-216-033-00	METAL CHIP	220	5% 1/10W	(XR-2753)
R958	1-216-037-00	METAL CHIP	330	5% 1/10W	(XR-2750)
R959	1-216-033-00	METAL CHIP	220	5% 1/10W	(XR-2753)
R959	1-216-037-00	METAL CHIP	330	5% 1/10W	(XR-2750)
R960	1-216-033-00	METAL CHIP	220	5% 1/10W	(XR-2753)
R960	1-216-037-00	METAL CHIP	330	5% 1/10W	(XR-2750)
R961	1-216-025-00	METAL CHIP	100	5% 1/10W	(XR-2753)
R961	1-216-029-00	METAL CHIP	150	5% 1/10W	(XR-2750)
R962	1-216-033-00	METAL CHIP	220	5% 1/10W	(XR-2753)
R962	1-216-037-00	METAL CHIP	330	5% 1/10W	(XR-2750)

CONTROL **MAIN**

Ref. No.	Part No.	Description				Remark
R970	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R971	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R972	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R973	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
		< SWITCH >				
S901	1-692-431-21	SWITCH, TACTILE (RESET)				
SW901	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (OFF)				(XR-2750)
SW901	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (OFF)				(XR-2753)
SW902	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)				(XR-2750)
SW902	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)				(XR-2753)
SW903	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (MODE)				(XR-2750)
SW903	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (MODE)				(XR-2753)
SW904	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (+ ▶▶I ▶▶: SEEK/AMS)				(XR-2750)
SW904	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (+ ▶▶I ▶▶: SEEK/AMS)				(XR-2753)
SW905	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (– I◀◀ ◀◀: SEEK/AMS)				(XR-2750)
SW905	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (– I◀◀ ◀◀: SEEK/AMS)				(XR-2753)
SW906	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (–)				(XR-2750)
SW906	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (–)				(XR-2753)
SW907	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (SEL)				(XR-2750)
SW907	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (SEL)				(XR-2753)
SW908	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (+)				(XR-2750)
SW908	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (+)				(XR-2753)
SW909	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (MUTE)				(XR-2750)
SW909	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (MUTE)				(XR-2753)
SW910	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (DSPL)				(XR-2750)
SW910	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (DSPL)				(XR-2753)
SW911	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (BTM)				(XR-2750)
SW911	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (BTM)				(XR-2753)
SW912	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (LCL)				(XR-2750)
SW912	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (LCL)				(XR-2753)
SW921	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (⏏)				(XR-2750)
SW921	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (⏏)				(XR-2753)
SW922	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (1/INTRO)				(XR-2750)
SW922	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (1/INTRO)				(XR-2753)
SW923	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (2/REPEAT)				(XR-2750)
SW923	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (2/REPEAT)				(XR-2753)
SW924	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (3)				(XR-2750)
SW924	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (3)				(XR-2753)
SW925	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (6/BL.SKIP)				(XR-2750)
SW925	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (6/BL.SKIP)				(XR-2753)
SW926	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (5/ATA)				(XR-2750)
SW926	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (5/ATA)				(XR-2753)
SW927	1-762-617-11	SWITCH, KEY BOARD (WITH LED) (4/METAL)				(XR-2750)
SW927	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (4/METAL)				(XR-2753)
SW970	1-762-937-11	SWITCH, ROTARY (D-BASS)				
**********						
*	A-3313-089-A	MAIN BOARD, COMPLETE (XR-2753)				
*	A-3313-117-A	MAIN BOARD, COMPLETE (XR-2750)				
		**********				
		< BATTERY >				
BT501	1-528-225-31	BATTERY, LITHIUM				
		< CAPACITOR >				
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C2	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C3	1-124-234-00	ELECT	22uF	20%	16V	
C4	1-124-234-00	ELECT	22uF	20%	16V	
C5	1-124-234-00	ELECT	22uF	20%	16V	
C6	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C7	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C8	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C9	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C10	1-163-213-00	CERAMIC CHIP	0.0022uF	5%	50V	
C12	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C13	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C14	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C15	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C16	1-124-589-11	ELECT	47uF	20%	16V	
C17	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C18	1-136-169-00	FILM	0.22uF	5%	50V	
C19	1-136-287-11	FILM	0.0047uF	5%	100V	
C20	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V	
C21	1-124-234-00	ELECT	22uF	20%	16V	
C22	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C24	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C25	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V	
C101	1-163-273-00	CERAMIC CHIP	820PF		25V	
C102	1-163-273-00	CERAMIC CHIP	820PF		25V	
C104	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C105	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	
C106	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C107	1-126-163-11	ELECT	4.7uF	20%	50V	
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V	

Ref. No.	Part No.	Description			Remark
C122	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V (XR-2750)
C122	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V (XR-2753)
C123	1-163-023-00	CERAMIC CHIP	0.015uF	10%	50V (XR-2750)
C123	1-164-232-11	CERAMIC CHIP	0.01uF	10%	50V (XR-2753)
C151	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V (XR-2750)
C151	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (XR-2753)
C153	1-126-160-11	ELECT	1uF	20%	50V
C161	1-126-160-11	ELECT	1uF	20%	50V
C162	1-126-160-11	ELECT	1uF	20%	50V
C163	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C164	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C165	1-126-157-11	ELECT	10uF	20%	16V
C166	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C167	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C168	1-126-157-11	ELECT	10uF	20%	16V
C171	1-126-160-11	ELECT	1uF	20%	50V
C175	1-126-160-11	ELECT	1uF	20%	50V
C176	1-163-205-00	CERAMIC CHIP	0.001uF	10%	50V
C181	1-126-160-11	ELECT	1uF	20%	50V
C185	1-126-160-11	ELECT	1uF	20%	50V
C186	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-163-273-00	CERAMIC CHIP	820PF		25V
C202	1-163-273-00	CERAMIC CHIP	820PF		25V
C204	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C205	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C206	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C207	1-126-163-11	ELECT	4.7uF	20%	50V
C208	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C223	1-163-023-00	CERAMIC CHIP	0.015uF	10%	50V (XR-2750)
C223	1-164-232-11	CERAMIC CHIP	0.01uF	10%	50V (XR-2753)
C251	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V (XR-2750)
C251	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (XR-2753)
C253	1-126-160-11	ELECT	1uF	20%	50V
C261	1-126-160-11	ELECT	1uF	20%	50V
C262	1-126-160-11	ELECT	1uF	20%	50V
C263	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C264	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C265	1-126-157-11	ELECT	10uF	20%	16V
C266	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C267	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C268	1-126-157-11	ELECT	10uF	20%	16V
C271	1-126-160-11	ELECT	1uF	20%	50V
C275	1-126-160-11	ELECT	1uF	20%	50V
C276	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C281	1-126-160-11	ELECT	1uF	20%	50V
C285	1-126-160-11	ELECT	1uF	20%	50V
C286	1-163-205-00	CERAMIC CHIP	0.001uF	10%	50V
C301	1-124-234-00	ELECT	22uF	20%	16V
C302	1-126-157-11	ELECT	10uF	20%	16V
C303	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
C305	1-126-159-11	ELECT	0.47uF	20%	50V
C306	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C307	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C335	1-124-234-00	ELECT	22uF	20%	16V
C351	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C352	1-124-584-00	ELECT	100uF	20%	10V
C353	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C354	1-126-157-11	ELECT	10uF	20%	16V
C356	1-126-934-11	ELECT	220uF	20%	16V
C362	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C401	1-124-584-00	ELECT	100uF	20%	10V
C402	1-124-234-00	ELECT	22uF	20%	16V
C406	1-124-589-11	ELECT	47uF	20%	16V
C407	1-124-589-11	ELECT	47uF	20%	16V
C408	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C501	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C502	1-163-091-00	CERAMIC CHIP	8PF	0.5PF	50V
C504	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C505	1-124-589-11	ELECT	47uF	20%	16V
C506	1-124-257-00	ELECT	2.2uF	20%	50V
C507	1-126-157-11	ELECT	10uF	20%	16V
C508	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C509	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C510	1-163-008-11	CERAMIC CHIP	820PF	10%	50V
C511	1-124-472-11	ELECT	470uF	20%	10V
C512	1-115-589-11	ELECT(BLOCK)	0.047uF		5.5V
C517	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C520	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C521	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C524	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C561	1-163-197-00	CERAMIC CHIP	470PF	5%	50V
C563	1-124-589-11	ELECT	47uF	20%	16V
C601	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C602	1-124-257-00	ELECT	2.2uF	20%	50V
C603	1-126-157-11	ELECT	10uF	20%	16V
C604	1-124-234-00	ELECT	22uF	20%	16V
C605	1-126-157-11	ELECT	10uF	20%	16V
C608	1-124-234-00	ELECT	22uF	20%	16V
C704	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C707	1-126-163-11	ELECT	4.7uF	20%	50V

< CONNECTOR >

	CN1	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P
*	CN351	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P
	CN602	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P
	CNJ400	1-770-381-11	CONNECTOR, BOARD TO BOARD 10P
	CNJ401	1-770-381-11	CONNECTOR, BOARD TO BOARD 10P

< CONPOSITION CIRCUIT BLOCK >

	CP1	1-519-504-11	GAP, DISCHARGE

< DIODE >

	D1	8-719-040-04	DIODE MA721WK-(TX)
	D2	8-719-010-34	DIODE UZ-4.7BSC
	D3	8-719-048-54	DIODE MTZJ-T-77-10A (XR-2750)
	D3	8-719-110-17	DIODE RD10ESB2 (XR-2753)
	D301	8-719-404-46	DIODE MA110
	D351	8-719-110-14	DIODE RD9.1ESB3
	D352	8-719-991-33	DIODE 1SS133T-77

MAIN

Ref. No.	Part No.	Description	Remark
D501	8-719-404-46	DIODE MA110	
D502	8-719-404-46	DIODE MA110	
D503	8-719-404-46	DIODE MA110	
D504	8-719-109-71	DIODE RD3.9ES-B1	
D505	8-719-991-33	DIODE 1SS133T-77	
D519	8-719-041-79	DIODE MA721WA-TX	
D520	8-719-404-46	DIODE MA110	
D565	8-719-049-26	DIODE RB721Q	
D566	8-719-404-46	DIODE MA110	
D601	8-719-923-74	DIODE MTZJ-T-77-11A	
D701	8-719-110-49	DIODE RD18ES-B2	
D706	8-719-110-03	DIODE RD7.5ESB2	
D707	8-719-110-09	DIODE RD8.2ES-B3	
D802	8-719-991-33	DIODE 1SS133T-77	
		< IC >	
IC301	8-752-079-78	IC CXA2509AQ-T4	
IC361	8-759-395-97	IC MM1322XFBE	
IC401	8-759-443-67	IC LC75373ED	
IC501	8-759-461-94	IC uPD17707GC-522-3B9	
IC601	8-759-347-49	IC BA3918-V2	
		< CHIP CONDUCTOR >	
JC2	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC3	1-216-296-00	CONDUCTOR, CHIP (3216)	(XR-2750)
JC7	1-216-296-00	CONDUCTOR, CHIP (3216)	
JC101	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC153	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC253	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC701	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC702	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR1	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR2	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR3	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR4	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR5	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR6	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR9	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR10	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR11	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR12	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR13	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR14	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR15	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR16	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR17	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR18	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR19	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR20	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR21	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR22	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR23	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR25	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR26	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR27	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR28	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR29	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR30	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR31	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR33	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR34	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR39	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR40	1-216-296-00	CONDUCTOR, CHIP (3216)	
JR41	1-216-296-00	CONDUCTOR, CHIP (3216)	
		< COIL >	
L1	1-410-180-51	INDUCTOR 0.1uH	(XR-2753)
L501	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q1	8-729-900-53	TRANSISTOR DTC114EK	
Q2	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q4	8-729-025-28	TRANSISTOR 2SK1828	
Q171	8-729-920-21	TRANSISTOR DTC314TKH04	
Q181	8-729-920-21	TRANSISTOR DTC314TKH04	
Q271	8-729-920-21	TRANSISTOR DTC314TKH04	
Q281	8-729-920-21	TRANSISTOR DTC314TKH04	
Q351	8-729-015-11	TRANSISTOR 2SD1802FAST-TL	
Q352	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q353	8-729-900-53	TRANSISTOR DTC114EK	
Q354	8-729-106-60	TRANSISTOR 2SB1115A	
Q355	8-729-900-53	TRANSISTOR DTC114EK	
Q501	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q502	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q503	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q504	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q505	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q506	8-729-216-22	TRANSISTOR 2SA1162-G	
Q601	8-729-030-18	TRANSISTOR 2SD2525	
Q602	8-729-030-18	TRANSISTOR 2SD2525	
Q603	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q604	8-729-900-53	TRANSISTOR DTC114EK	
Q701	8-729-900-53	TRANSISTOR DTC114EK	
Q702	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q703	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q704	8-729-027-38	TRANSISTOR DTA144EKA-T146	
		< RESISTOR >	
R1	1-249-417-11	CARBON 1K 5% 1/4W	
R3	1-216-049-11	METAL CHIP 1K 5% 1/10W	
R4	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R5	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R6	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R7	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R8	1-216-254-00	METAL CHIP 220K 5% 1/8W	
R9	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R10	1-216-049-11	METAL CHIP 1K 5% 1/10W	
R11	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R12	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R13	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R14	1-216-214-00	METAL CHIP 4.7K 5% 1/8W	
R15	1-216-029-00	METAL CHIP 150 5% 1/10W	
R17	1-216-041-00	METAL CHIP 470 5% 1/10W	
R101	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R102	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R103	1-216-041-00	METAL CHIP 470 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R104	1-216-109-00	METAL CHIP	330K	5%	1/10W
R105	1-216-077-00	METAL CHIP	15K	5%	1/10W
R106	1-216-079-00	METAL CHIP	18K	5%	1/10W
R107	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W
R121	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (XR-2753)
R121	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (XR-2750)
R122	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (XR-2750)
R152	1-216-063-00	METAL CHIP	3.9K	5%	1/10W (XR-2750)
R152	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (XR-2753)
R161	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R171	1-216-182-00	METAL CHIP	220	5%	1/8W
R172	1-216-222-00	METAL CHIP	10K	5%	1/8W
R173	1-216-230-00	METAL CHIP	22K	5%	1/8W
R174	1-259-880-11	CARBON	2.2M	5%	1/4W
R175	1-216-089-00	METAL CHIP	47K	5%	1/10W
R181	1-216-182-00	METAL CHIP	220	5%	1/8W
R182	1-216-222-00	METAL CHIP	10K	5%	1/8W
R183	1-216-230-00	METAL CHIP	22K	5%	1/8W
R184	1-259-880-11	CARBON	2.2M	5%	1/4W
R185	1-216-089-00	METAL CHIP	47K	5%	1/10W
R201	1-216-085-00	METAL CHIP	33K	5%	1/10W
R202	1-216-085-00	METAL CHIP	33K	5%	1/10W
R203	1-216-041-00	METAL CHIP	470	5%	1/10W
R204	1-216-109-00	METAL CHIP	330K	5%	1/10W
R205	1-216-077-00	METAL CHIP	15K	5%	1/10W
R206	1-216-079-00	METAL CHIP	18K	5%	1/10W
R207	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R208	1-216-073-00	METAL CHIP	10K	5%	1/10W
R252	1-216-063-00	METAL CHIP	3.9K	5%	1/10W (XR-2750)
R252	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (XR-2753)
R261	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R271	1-216-033-00	METAL CHIP	220	5%	1/10W
R272	1-216-222-00	METAL CHIP	10K	5%	1/8W
R273	1-216-230-00	METAL CHIP	22K	5%	1/8W
R274	1-259-880-11	CARBON	2.2M	5%	1/4W
R275	1-216-089-00	METAL CHIP	47K	5%	1/10W
R281	1-216-033-00	METAL CHIP	220	5%	1/10W
R282	1-249-429-11	CARBON	10K	5%	1/4W
R283	1-216-230-00	METAL CHIP	22K	5%	1/8W
R284	1-259-880-11	CARBON	2.2M	5%	1/4W
R285	1-216-089-00	METAL CHIP	47K	5%	1/10W
R301	1-216-079-00	METAL CHIP	18K	5%	1/10W
R302	1-216-097-00	METAL CHIP	100K	5%	1/10W
R303	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R304	1-216-081-00	METAL CHIP	22K	5%	1/10W
R305	1-249-417-11	CARBON	1K	5%	1/4W
R306	1-249-417-11	CARBON	1K	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W
R308	1-216-113-00	METAL CHIP	470K	5%	1/10W
R309	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-216-049-11	METAL CHIP	1K	5%	1/10W
R352	1-249-385-11	CARBON	2.2	5%	1/6W
R353	1-249-385-11	CARBON	2.2	5%	1/6W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R355	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R360	1-216-001-00	METAL CHIP	10	5%	1/10W
R401	1-249-393-11	CARBON	10	5%	1/4W
R501	1-216-097-00	METAL CHIP	100K	5%	1/10W
R502	1-216-073-00	METAL CHIP	10K	5%	1/10W (XR-2750)
R502	1-216-097-00	METAL CHIP	100K	5%	1/10W (XR-2753)
R503	1-216-097-00	METAL CHIP	100K	5%	1/10W
R504	1-249-429-11	CARBON	10K	5%	1/4W
R506	1-247-895-00	CARBON	470K	5%	1/4W
R508	1-249-429-11	CARBON	10K	5%	1/4W
R509	1-249-429-11	CARBON	10K	5%	1/4W
R511	1-249-441-11	CARBON	100K	5%	1/4W
R512	1-216-097-00	METAL CHIP	100K	5%	1/10W
R515	1-216-097-00	METAL CHIP	100K	5%	1/10W
R516	1-249-441-11	CARBON	100K	5%	1/4W
R517	1-249-441-11	CARBON	100K	5%	1/4W
R518	1-249-441-11	CARBON	100K	5%	1/4W
R519	1-249-441-11	CARBON	100K	5%	1/4W
R520	1-249-437-11	CARBON	47K	5%	1/4W
R521	1-216-246-00	METAL CHIP	100K		1/8W
R522	1-216-097-00	METAL CHIP	100K	5%	1/10W
R523	1-249-441-11	CARBON	100K	5%	1/4W
R524	1-249-441-11	CARBON	100K	5%	1/4W
R527	1-249-441-11	CARBON	100K	5%	1/4W
R530	1-216-097-00	METAL CHIP	100K	5%	1/10W
R531	1-216-097-00	METAL CHIP	100K	5%	1/10W
R533	1-216-246-00	METAL CHIP	100K		1/8W
R540	1-216-049-11	METAL CHIP	1K	5%	1/10W
R541	1-249-417-11	CARBON	1K	5%	1/4W
R542	1-249-417-11	CARBON	1K	5%	1/4W
R543	1-249-417-11	CARBON	1K	5%	1/4W
R544	1-249-417-11	CARBON	1K	5%	1/4W
R546	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R547	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R549	1-216-222-00	METAL CHIP	10K	0.50%	1/8W
R550	1-216-222-00	METAL CHIP	10K	0.50%	1/8W
R551	1-216-174-00	METAL CHIP	100	5%	1/8W
R552	1-216-174-00	METAL CHIP	100	5%	1/8W
R553	1-216-097-00	METAL CHIP	100K	5%	1/10W
R561	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R563	1-216-113-00	METAL CHIP	470K	5%	1/10W
R564	1-216-113-00	METAL CHIP	470K	5%	1/10W
R567	1-216-174-00	METAL CHIP	100	5%	1/8W
R568	1-216-097-00	METAL CHIP	100K	5%	1/10W
R572	1-249-441-11	CARBON	100K	5%	1/4W
R573	1-249-417-11	CARBON	1K	5%	1/4W
R576	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R578	1-249-413-11	CARBON	470	5%	1/4W
R579	1-249-413-11	CARBON	470	5%	1/4W
R580	1-249-421-11	CARBON	2.2K	5%	1/4W
R581	1-249-421-11	CARBON	2.2K	5%	1/4W
R582	1-249-421-11	CARBON	2.2K	5%	1/4W
R583	1-249-417-11	CARBON	1K	5%	1/4W
R584	1-249-417-11	CARBON	1K	5%	1/4W

MAIN **POWER**

Ref. No.	Part No.	Description			Remark
R585	1-249-417-11	CARBON	1K	5%	1/4W
R586	1-249-417-11	CARBON	1K	5%	1/4W
R587	1-249-417-11	CARBON	1K	5%	1/4W
R588	1-249-417-11	CARBON	1K	5%	1/4W
R589	1-249-417-11	CARBON	1K	5%	1/4W
R590	1-249-417-11	CARBON	1K	5%	1/4W
R591	1-216-081-00	METAL CHIP	22K	5%	1/10W
R592	1-216-105-00	METAL CHIP	220K	5%	1/10W
R593	1-216-073-00	METAL CHIP	10K	5%	1/10W
R596	1-247-879-11	CARBON	100K	5%	1/4W
R597	1-216-089-00	METAL CHIP	47K	5%	1/10W
R598	1-216-089-00	METAL CHIP	47K	5%	1/10W
R601	1-249-385-11	CARBON	2.2	5%	1/6W
R602	1-249-385-11	CARBON	2.2	5%	1/6W
R603	1-249-411-11	CARBON	330	5%	1/4W
R708	1-216-113-00	METAL CHIP	470K	5%	1/10W
R709	1-216-073-00	METAL CHIP	10K	5%	1/10W
R711	1-216-097-00	METAL CHIP	100K	5%	1/10W
R712	1-216-089-00	METAL CHIP	47K	5%	1/10W
R713	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R851	1-247-807-11	CARBON	100	5%	1/4W
R852	1-216-025-00	METAL CHIP	100	5%	1/10W
R857	1-247-807-11	CARBON	100	5%	1/4W
		< TUNER >			
TU1	A-3282-029-A	TUNER UNIT TUX-006/2 (E) (XR-2750)			
TU1	A-3282-031-A	TUNER UNIT TUX-006/2 (EE) (XR-2753)			
		< VIBRATOR >			
X501	1-578-785-11	VIBRATOR, CRYSTAL (4.5MHz)			
**********					
*	A-3313-090-A	POWER BOARD, COMPLETE (XR-2753)			
*	A-3313-118-A	POWER BOARD, COMPLETE (XR-2750)			
		**********			
*	3-012-566-01	BRACKET (IC)			
*	3-012-568-01	BRACKET (CONNECTOR)			
*	3-012-569-01	HEAT SINK			
	7-682-548-04	SCREW +P 3X8			
	7-685-792-09	SCREW +PTT 2.6X6 (S)			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< CAPACITOR >			
C503	1-126-157-11	ELECT	10uF	20%	16V
C751	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C752	1-126-157-11	ELECT	10uF	20%	16V
C753	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C765	1-136-165-00	FILM	0.1uF	5%	50V
C766	1-136-165-00	FILM	0.1uF	5%	50V
C775	1-136-165-00	FILM	0.1uF	5%	50V
C776	1-136-165-00	FILM	0.1uF	5%	50V
C778	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C785	1-136-165-00	FILM	0.1uF	5%	50V
C786	1-136-165-00	FILM	0.1uF	5%	50V
C787	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C789	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C790	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C791	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
C795	1-136-165-00	FILM	0.1uF	5%	50V
C796	1-136-165-00	FILM	0.1uF	5%	50V
C801	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C802	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C804	1-113-501-11	ELECT	4700uF	20%	16V
C805	1-126-157-11	ELECT	10uF	20%	16V
C807	1-163-232-11	CERAMIC CHIP	0.01uF	10%	50V
C808	1-163-232-11	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
CN801	1-779-533-11	PIN, CONNECTOR (PC BOARD)			
CNP400	1-770-406-11	CONNECTOR, BOARD TO BOARD 10P			
CNP401	1-770-406-11	CONNECTOR, BOARD TO BOARD 10P			
		< DIODE >			
D801	8-719-049-38	DIODE 1N5404TU			
D805	8-719-057-80	DIODE MA8160-M-TX			
D806	8-719-422-64	DIODE MA8062-M			
D807	8-719-422-64	DIODE MA8062-M			
		< IC >			
IC751	8-759-369-41	IC HA13155			
		< COIL >			
L801	1-416-046-11	COIL, CHOKE 400uH			
		< RESISTOR >			
R534	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R535	1-216-049-11	METAL CHIP	1K	5%	1/10W
R765	1-249-385-11	CARBON	2.2	5%	1/6W
R766	1-249-385-11	CARBON	2.2	5%	1/6W
R775	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R776	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R785	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R786	1-249-385-11	CARBON	2.2	5%	1/6W
R795	1-249-385-11	CARBON	2.2	5%	1/6W
R796	1-249-385-11	CARBON	2.2	5%	1/6W
R858	1-216-222-00	METAL CHIP	10K	5%	1/8W
R859	1-216-073-00	METAL CHIP	10K	5%	1/10W
**********					
		MISCELLANEOUS			
		**********			
16	1-782-344-11	CORD (WITH CONNECTOR) (POWER)			
158	1-660-169-21	REEL BOARD			
F901	1-532-677-00	FUSE, GLASS TUBE (10A)			
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)			
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)			
M902	A-3291-664-A	MOTOR ASSY, SUB (LOADING/TAPE OPERATION)			
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)			
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Ref. No.	Part No.	Description	Remark

****
HARDWARE LIST
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#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#3	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT	
#4	7-682-548-04	SCREW +P 3X8	
#5	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#6	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
#7	7-624-104-04	STOP RING 2.0, TYPE -E	
#8	7-628-253-00	SCREW +PS 2X4	

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ACCESSORIES & PACKING MATERIALS
****

	1-782-344-11	CORD (WITH CONNECTOR) (POWER)
	3-859-732-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH , TURKISH) (XR-2750)
	3-859-732-21	MANUAL, INSTRUCTION (ENGLISH, POLISH, BULGARIAN, MAGYAR, RUSSIAN) (XR-2753)
	3-859-733-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH, TURKISH) (XR-2750)
	3-859-733-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, POLISH, BULGARIAN, MAGYAR, RUSSIAN) (XR-2753)

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PARTS FOR INSTALLATION AND CONNECTIONS
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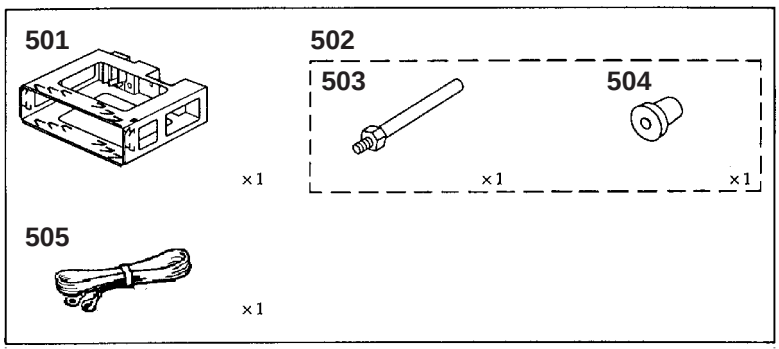
501	3-012-593-01	BRACKET	
502	X-3366-405-1	SCREW ASSY (EXP), FITTING	
503	3-386-828-01	SCREW, FITTING	
504	3-349-410-01	BUSHING	
505	1-775-543-11	CORD, GROUND	



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